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00705A SHRIT MISSILE NUMBER GTV-1 10 JANUARY 1986(U)

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ARMY LAB COMMAND WHITE SANDS MISSILE RANGE NM

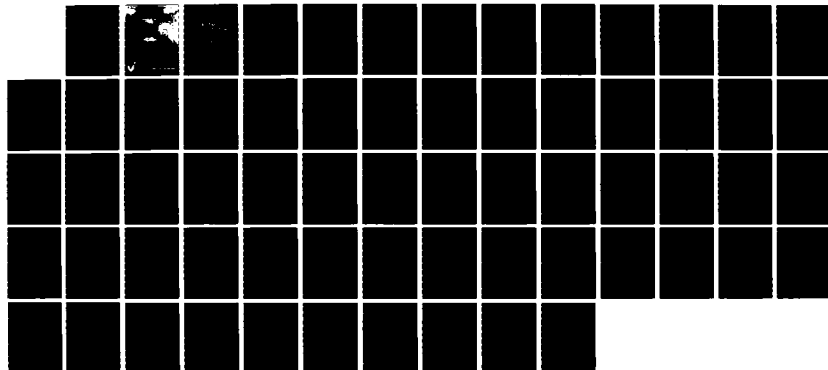
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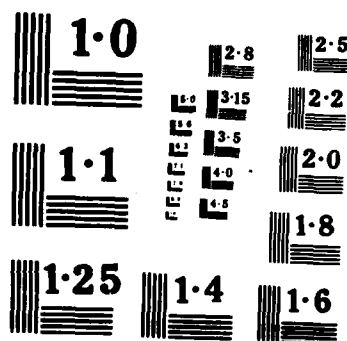
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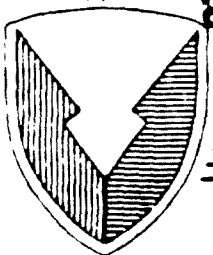
METEOROLOGICAL DATA REPORT  
00705A SHRIT  
Missile Number GTV-1  
10 January 1986

by

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U.S. Army Laboratory Command  
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White Sands Missile Range, NM 88002-5501

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19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 00705A SHRIT, Missile Number GTV-1, are presented in tabular form.		

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## INTRODUCTION

00705A SHRIT, Missile Number GTV-1, was launched from LC-50, White Sands Missile Range (WSMR), New Mexico at 1120 MST, 10 January 1985. The scheduled launch time was 0815 MST.

## DISCUSSION

Meteorological data in support of the mission was recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), LABCOM, White Sands Missile Range, New Mexico. The data was obtained by the following methods:

### 1. Observations

#### a. Surface:

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm}/\text{m}^3$ ), wind direction and speed and cloud cover were made at the LC-50 launch area beginning at 0350 hours MST. The last observation made was at T-0.

(2) Wind data was provided from a two meter mast mounted anemometer with an ID-373 analog readout located inside the launch control van.

#### b. Upper Air:

(1) Lower level wind data was obtained from Wind Finding Radar observations at the Small Missile Range at the following times:

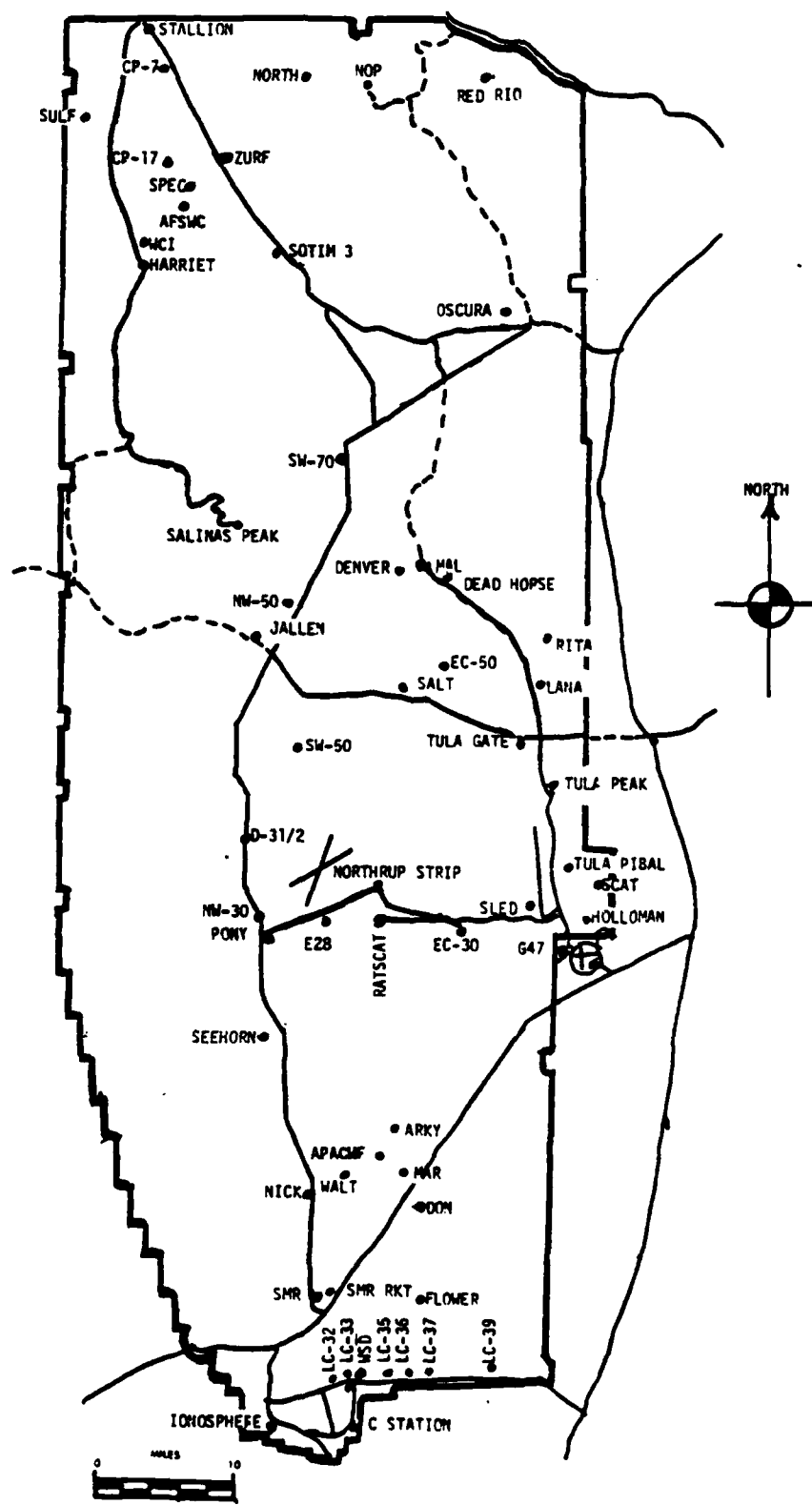
0211 MST	0559 MST
0332 MST	0631 MST
0404 MST	1017 MST
0444 MST	1123 MST
0525 MST	

(2) Air structure (rawinsonde) data was collected at the following meteorological sites:

<u>SITE</u>	<u>TIME</u>
SMR	0200 MST
SMR	0400 MST
SMR	0600 MST
SMR	0700 MST
SMR	0800 MST
WSD	1220 MST (T-0)



# WSMR METEOROLOGICAL SITES



# PROJECT SURFACE OBSERVATION

TABLE 1									
STATION LC-50									
DATE		10	Jan	86					
		DAY	MONTH	YEAR					
					X = 563,324.58	Y = 211,272.69	H = 4021.6		
TIME M S I	PRESSURE mbs	TEMPERATURE °C	DEW POINT °C	RELATIVE HUMIDITY %	DENSITY gm/m <sup>3</sup>	DIRECTION degs	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
0350	890.3	-5.8	-10.7	68		020	04		15
0415	890.1	-5.8	-8.8	79		330	02		15
0455	890.0	-8.5	-12.2	75		330	02		15

OBSTRUCTIONS TO VISIBILITY	CLOUDS							REMARKS	
	1st LAYER		2nd LAYER			3rd LAYER			
	AMT	TYPE	HGT	AMT	TYPE	HGT	AMT		TYPE
	CLR								
	CLR								
	CLR								

## PSYCHROMETRIC COMPUTATION

TIME: MST	0350	0415	0455
DRY BULB TEMP.	-5.8	-5.8	-8.5
WET BULB TEMP.	-7.0	-6.5	-9.2
WET BULB DEPR.	1.2	0.7	0.7
DEW POINT	-10.7	-8.8	-12.2
RELATIVE HUMID.	68	79	75

# PROJECT SURFACE OBSERVATION

TABLE 1 Cont'd									
STATION LC-50									
DATE 10 Jan 86		X= 563,324.58		Y= 211,272.69		H= 4021.6			
TIME M S I	PRESSURE mbs	TEMPERATURE OF OC	DEW POINT OF OC	RELATIVE HUMIDITY %	DENSITY gm/m <sup>3</sup>	DIRECTION degs	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
0545	889.9	-8.2	-10.3	85		150	06		15
0645	890.6	-7.3	-10.7	76		170	06		25
0800	891.3	-2.8	-9.5	61		150	02		35

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	TYPE	HGT	AMT	TYPE	HGT	
	CLR						
	CLR						
	CLR						

## PSYCHROMETRIC COMPUTATION

TIME: MST	0545	0645	0800
DRY BULB TEMP.	-8.2	-7.3	-2.8
WET BULB TEMP.	-8.5	-8.0	-4.8
WET BULB DEPR.	.3	.7	2.0
DEW POINT	-10.3	-10.7	-9.5
RELATIVE HUMID.	85	76	61

# PROJECT SURFACE OBSERVATION

TABLE 1 Cont'd									
STATION LC-50									
DATE	10	Jan	86						
DAY		MONTH	YEAR	X=	563,324.58	Y=	211,272.69	H=	4,021.6
TIME M S I	PRESSURE mbs	TEMPERATURE OF OC	DEW POINT OF OC	RELATIVE HUMIDITY %	DENSITY gm/m <sup>3</sup>	DIRECTION degs	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
0845	891.8	-0.7	-6.8	63		150	02		40
0915	892.7	3.0	-3.5	62		70	01		40
1030	892.8	6.3	-4.3	47		230	02		40

OBSTRUCTIONS TO VISIBILITY	CLOUDS						REMARKS
	1st LAYER		2nd LAYER		3rd LAYER		
	AMT	TYPE	HGT	AMT	TYPE	HGT	
	CLR						
	CLR						
	CLR						Winds at surface light and variable

## PSYCHROMETRIC COMPUTATION

TIME:	MST	0845	0915	1030
DRY BULB TEMP.	-0.7	3.0	6.3	
WET BULB TEMP.	-2.8	0.3	1.8	
WET BULB DEPR.	2.1	2.7	4.5	
DEW POINT	-6.8	-3.5	-4.5	
RELATIVE HUMID.	63	62	47	

# PROJECT SURFACE OBSERVATION

TABLE 1 Cont'd

STATION LC-50									
DATE	10	Jan	86						
				X=	563,324.58	Y=	211,272.69	H=	4,021.6
TIME	DAY	MONTH	YEAR	PRESSURE	TEMPERATURE	DEW POINT	RELATIVE	DENSITY	WIND
M S J				mbs	OF	OC	HUMIDITY	gm/in <sup>3</sup>	SPEED
							%		kts
									CHARACTER
									kts
									VISIBIL-ITY
1120				892.0	8.6	-6.4	34		02

T-0

OBSTRUCTIONS TO VISIBILITY	CLOUDS							REMARKS		
	1st LAYER		2nd LAYER		3rd LAYER					
	AMT	TYPE	HGT	AMT	TYPE	HGT	AMT		TYPE	HGT
	CLR									WIND LIGHT AND VARIABLE

## PSYCHROMETRIC COMPUTATION

TIME:	MST	1120	
DRY BULB TEMP.		8.6	
WET BULB TEMP.		2.4	
WET BULB DEPR.		6.2	
DEW POINT		-6.4	
RELATIVE HUMID.		45	

02:11:05 01-10-86

na 1

TABLE 2

Altitude (ft above sfc)	Wind Dir (deg)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100-	300	15.9	2.1	2.0	0.6	
300-	500	17.4	5.6	5.4	1.7	
500-	700	10.0	7.5	7.4	1.3	
700-	900	344.6	4.6	4.7	-1.3	
900-	1100	284.8	1.2	0.3	-1.2	
1100-	1300	306.1	3.2	1.9	-2.6	
1300-	1500	320.0	3.6	3.1	-1.8	
1500-	1700	332.6	7.2	6.4	-3.3	
1700-	1900	357.0	8.4	8.3	-0.4	
1900-	2100	349.0	9.1	8.9	-1.7	
2100-	2300	351.6	9.8	9.7	-1.4	
2300-	2500	352.5	11.7	11.6	-1.5	
2500-	2700	4.1	13.0	13.0	0.9	
2700-	2900	6.8	16.5	16.4	2.0	
2900-	3100	13.6	17.8	17.3	4.2	
3100-	3300	9.8	25.4	25.1	4.3	
3300-	3500	17.6	23.8	22.7	7.2	
3500-	3700	19.9	20.8	19.5	7.1	
3700-	3900	20.0	21.4	20.1	7.3	
3900-	4100	26.1	17.8	16.0	7.9	
4100-	4300	17.5	26.2	25.0	7.9	
4300-	4500	35.0	15.6	12.8	8.9	
4500-	4700	40.5	11.9	9.1	7.7	
4700-	4900	58.7	13.6	7.1	11.7	
4900-	5100	52.1	13.2	8.1	10.4	
5100-	5300	63.1	12.2	5.5	10.9	
5300-	5500	56.3	14.4	8.0	12.0	
5500-	5700	59.6	15.2	7.7	13.1	
5700-	5900	53.9	16.6	9.8	13.4	
5900-	6100	50.4	14.6	9.3	11.3	
6100-	6300	48.3	14.8	9.9	11.0	
6300-	6500	46.9	13.3	9.1	9.7	
6500-	6700	57.1	16.0	8.7	13.5	
6700-	6900	50.7	16.3	10.3	12.6	
6900-	7100	47.4	14.8	10.0	10.9	
7100-	7300	45.8	13.7	9.6	9.8	
7300-	7500	46.1	13.9	9.6	10.0	
7500-	7700	48.8	13.9	9.2	10.5	
7700-	7900	42.0	13.8	10.3	9.3	
7900-	8100	29.4	13.3	11.6	6.5	
8100-	8300	22.0	12.5	11.6	4.7	
8300-	8500	32.9	13.1	11.0	7.1	
8500-	8700	16.4	12.6	12.1	3.6	
8700-	8900	14.6	14.1	13.6	3.6	
8900-	9100	14.8	13.4	13.0	3.4	
9100-	9300	8.2	13.7	13.5	1.9	

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Ra 1

TABLE 2 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300- 9500	0.6	14.7	14.7	0.2		
9500- 9700	11.4	12.8	12.5	2.5		
9700- 9900	358.2	13.0	13.0	-0.4		
9900- 10100	353.2	14.6	14.5	-1.7		
10100- 10300	349.5	14.5	14.2	-2.6		
10300- 10500	349.0	14.1	13.8	-2.7		
10500- 10700	353.0	13.6	13.5	-1.7		
10700- 10900	344.4	15.0	14.4	-4.0		
10900- 11100	3.0	13.5	13.5	0.7		
11100- 11300	350.2	15.9	15.6	-2.7		
11300- 11500	350.9	14.3	14.1	-2.3		
11500- 11700	359.2	13.4	13.4	-0.2		
11700- 11900	346.1	17.7	17.1	-4.2		
11900- 12100	359.2	14.3	14.3	-0.2		
12100- 12300	342.1	20.3	19.3	-6.3		
12300- 12500	345.5	13.3	12.9	-3.3		
12500- 12700	336.1	18.4	16.8	-7.4		
12700- 12900	346.6	15.6	15.2	-3.6		
12900- 13100	337.6	16.1	14.9	-6.1		
13100- 13300	328.5	17.0	14.5	-8.9		
13300- 13500	329.2	17.6	15.1	-9.0		
13500- 13700	343.3	15.9	15.2	-4.6		
13700- 13900	339.4	19.2	18.0	-6.7		
13900- 14100	333.6	21.2	19.0	-9.4		
14100- 14300	332.4	23.6	20.9	-10.9		
14300- 14500	329.1	19.7	16.9	-10.1		
14500- 14700	331.9	18.8	16.5	-8.8		
14700- 14900	325.9	17.6	14.6	-9.9		
14900- 15100	320.9	20.2	15.6	-12.7		
15100- 15300	328.9	18.5	15.9	-9.6		
15300- 15500	327.0	17.7	14.8	-9.6		
15500- 15700	325.7	18.1	15.0	-10.2		
15700- 15900	323.4	17.3	13.9	-10.3		
15900- 16100	318.1	17.7	13.2	-11.8		

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Ha 2

TABLE 3

Altitude (ft above sfc)	Wind Dir (deg)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100-	300	265.2	0.8	-0.1	-0.8	
300-	500	346.0	7.3	7.1	-1.8	
500-	700	23.8	9.2	8.4	3.7	
700-	900	22.5	6.8	6.3	2.6	
900-	1100	11.4	8.3	8.1	1.6	
1100-	1300	17.4	6.1	5.8	1.8	
1300-	1500	353.3	5.4	5.3	-0.6	
1500-	1700	343.5	5.9	5.6	-1.7	
1700-	1900	336.7	5.0	4.6	-2.0	
1900-	2100	330.8	8.6	7.5	-4.2	
2100-	2300	325.7	15.5	12.8	-8.8	
2300-	2500	1.1	14.0	14.0	0.3	
2500-	2700	357.6	12.7	12.7	-0.5	
2700-	2900	3.8	13.5	13.5	0.9	
2900-	3100	7.7	21.7	21.5	2.9	
3100-	3300	5.2	19.1	19.1	1.7	
3300-	3500	15.9	19.6	18.8	5.4	
3500-	3700	18.4	24.7	23.4	7.8	
3700-	3900	30.9	19.9	17.1	10.2	
3900-	4100	33.3	17.7	14.8	9.7	
4100-	4300	57.1	16.8	9.1	14.1	
4300-	4500	52.2	12.8	7.8	10.1	
4500-	4700	67.4	9.6	3.7	8.9	
4700-	4900	55.1	14.1	8.1	11.6	
4900-	5100	85.2	9.0	0.8	9.0	
5100-	5300	48.0	7.3	4.9	5.4	
5300-	5500	45.5	10.6	7.4	7.5	
5500-	5700	82.8	8.5	1.1	8.4	
5700-	5900	104.3	9.0	-2.2	8.7	
5900-	6100	75.4	12.3	3.5	11.8	
6100-	6300	50.2	12.7	7.6	10.2	
6300-	6500	46.5	8.8	6.1	6.4	
6500-	6700	56.3	9.5	5.3	7.9	
6700-	6900	49.9	8.8	5.7	6.7	
6900-	7100	58.8	12.4	6.4	10.6	
7100-	7300	40.9	10.6	8.0	6.9	
7300-	7500	66.8	17.5	6.9	16.1	
7500-	7700	68.0	12.5	4.7	11.6	
7700-	7900	83.0	9.7	1.2	9.6	
7900-	8100	53.3	10.6	6.3	8.5	
8100-	8300	30.1	6.3	5.5	3.2	
8300-	8500	9.6	9.1	8.9	1.5	
8500-	8700	11.8	12.7	12.4	2.6	
8700-	8900	8.7	10.0	9.9	1.5	
8900-	9100	359.2	10.0	10.0	-0.1	
9100-	9300	358.7	7.6	7.6	-0.2	



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na 2

TABLE 3 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300- 9500	12.7	9.7	9.4	2.1		
9500- 9700	338.0	9.3	8.7	-3.5		
9700- 9900	338.1	5.9	5.4	-2.2		
9900- 10100	327.2	11.5	9.6	-6.2		
10100- 10300	348.3	16.2	15.9	-3.3		
10300- 10500	13.8	14.4	14.0	3.4		
10500- 10700	356.9	11.5	11.4	-0.6		
10700- 10900	347.0	14.5	14.2	-3.3		
10900- 11100	356.8	17.5	17.5	-1.0		
11100- 11300	348.5	16.1	15.8	-3.2		
11300- 11500	342.9	18.5	17.7	-5.4		
11500- 11700	335.3	9.6	8.7	-4.0		
11700- 11900	352.6	17.9	17.7	-2.3		
11900- 12100	336.3	16.9	15.5	-6.8		
12100- 12300	337.4	13.6	12.6	-5.2		
12300- 12500	349.4	16.5	16.3	-3.1		
12500- 12700	345.6	16.2	15.7	-4.0		
12700- 12900	323.5	17.1	13.8	-10.2		
12900- 13100	329.0	18.7	16.0	-9.6		
13100- 13300	338.0	19.7	18.2	-7.4		
13300- 13500	329.0	20.1	17.2	-10.3		
13500- 13700	334.4	21.0	19.0	-9.1		
13700- 13900	329.4	19.4	16.7	-9.9		
13900- 14100	327.7	18.3	15.5	-9.8		
14100- 14300	323.1	21.1	16.9	-12.7		
14300- 14500	321.5	15.7	12.3	-9.8		
14500- 14700	332.3	17.9	15.8	-8.3		
14700- 14900	307.5	13.1	8.0	-10.4		
Integrated ballistic-weighted layer wind:						
100- 14900	5.2	10.6	10.5	1.0		

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 a 3

TABLE 4

Altitude (ft above sfc)	Wind Dir (deg)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100- 300	264.7	1.8	-0.2	-1.8		
300- 500	12.3	10.2	10.0	2.2		
500- 700	7.3	5.7	6.6	0.8		
700- 900	354.7	8.4	8.3	-0.8		
900- 1100	358.6	11.1	11.1	-0.3		
1100- 1300	6.9	9.7	9.6	1.2		
1300- 1500	348.3	5.3	5.1	-1.1		
1500- 1700	356.3	5.2	5.2	-0.3		
1700- 1900	336.6	7.8	7.2	-3.1		
1900- 2100	354.6	11.1	11.1	-1.0		
2100- 2300	354.8	13.1	13.1	-1.2		
2300- 2500	1.4	14.3	14.3	0.3		
2500- 2700	10.0	13.7	13.5	2.4		
2700- 2900	3.4	18.7	18.7	1.1		
2900- 3100	0.6	18.5	18.5	0.2		
3100- 3300	10.6	18.9	18.6	3.5		
3300- 3500	16.0	18.7	17.9	5.2		
3500- 3700	24.0	17.8	16.3	7.3		
3700- 3900	36.5	15.3	12.3	9.1		
3900- 4100	39.6	13.9	10.6	8.9		
4100- 4300	47.8	14.4	9.7	10.7		
4300- 4500	43.1	13.1	9.5	8.9		
4500- 4700	32.8	17.6	14.8	9.6		
4700- 4900	73.5	10.1	2.9	9.7		
4900- 5100	74.3	7.2	2.0	7.0		
5100- 5300	85.0	7.9	0.7	7.9		
5300- 5500	77.9	9.1	1.9	8.9		
5500- 5700	51.8	7.6	4.7	6.0		
5700- 5900	66.7	9.1	3.6	8.3		
5900- 6100	57.1	9.5	5.2	8.0		
6100- 6300	40.4	10.0	7.6	6.5		
6300- 6500	48.5	7.7	5.1	5.8		
6500- 6700	55.7	8.2	4.6	6.8		
6700- 6900	48.5	8.5	5.6	6.3		
6900- 7100	54.7	8.2	4.7	6.7		
7100- 7300	56.5	8.2	4.6	6.9		
7300- 7500	52.8	7.3	4.4	5.9		
7500- 7700	57.3	6.8	3.7	5.7		
7700- 7900	15.2	6.7	6.5	1.8		
7900- 8100	4.4	5.0	5.0	0.4		
8100- 8300	12.3	7.6	7.4	1.6		
8300- 8500	356.6	8.3	8.3	-0.5		
8500- 8700	4.2	8.2	8.2	0.6		
8700- 8900	356.0	9.4	9.4	-0.7		
8900- 9100	358.3	9.7	9.7	-0.3		
9100- 9300	355.7	9.0	9.0	-0.7		

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TABLE 4 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300- 9500	342.6	10.1	9.6	-3.0		
9500- 9700	353.9	10.6	10.6	-1.1		
9700- 9900	349.0	12.1	11.8	-2.3		
9900- 10100	352.6	13.4	13.3	-1.7		
10100- 10300	345.8	14.5	14.1	-3.6		
10300- 10500	345.5	15.4	14.9	-3.9		
10500- 10700	345.5	15.0	14.5	-3.8		
10700- 10900	349.6	15.6	15.4	-2.8		
10900- 11100	350.1	16.0	15.8	-2.7		
11100- 11300	345.2	14.8	14.3	-3.8		
11300- 11500	352.8	12.8	12.7	-1.6		
11500- 11700	352.1	13.8	13.6	-1.9		
11700- 11900	349.9	15.6	15.4	-2.7		
11900- 12100	349.8	14.4	14.2	-2.6		
12100- 12300	347.6	15.6	15.2	-3.3		
12300- 12500	346.7	16.3	15.9	-3.8		
12500- 12700	351.4	18.0	17.8	-2.7		
12700- 12900	344.3	16.0	15.4	-4.3		
12900- 13100	336.4	16.7	15.3	-6.7		
13100- 13300	340.9	18.7	17.7	-6.1		
13300- 13500	334.9	17.8	16.1	-7.6		
13500- 13700	325.5	19.9	16.4	-11.3		
13700- 13900	329.5	20.5	17.7	-10.4		
13900- 14100	324.4	20.7	16.8	-12.0		
14100- 14300	326.3	18.5	15.4	-10.2		
14300- 14500	327.0	19.3	16.2	-10.5		
14500- 14700	315.6	19.1	13.7	-13.4		
14700- 14900	322.3	17.7	14.0	-10.8		
14900- 15100	316.9	16.3	11.9	-11.1		
15100- 15300	316.5	16.2	11.8	-11.2		
15300- 15500	313.2	17.1	11.7	-12.5		
15500- 15700	312.7	16.4	11.2	-12.1		
15700- 15900	312.1	15.9	10.7	-11.8		
15900- 16100	307.7	17.5	10.7	-13.8		
16100- 16300	312.7	17.1	11.6	-12.6		
16300- 16500	315.9	19.0	13.7	-13.2		
16500- 16700	341.8	16.8	15.9	-5.3		
16700- 16900	343.6	17.5	16.8	-4.9		
16900- 17100	345.8	17.2	16.6	-4.2		
17100- 17300	10.9	19.5	19.2	3.7		
17300- 17500	356.2	17.0	17.0	-1.1		
17500- 17700	6.3	20.5	20.4	2.2		
17700- 17900	16.5	20.9	20.1	6.0		
17900- 18100	11.3	19.6	19.3	3.9		
18100- 18300	8.0	20.5	20.3	2.9		
18300- 18500	26.9	22.2	19.8	10.0		

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TABLE 4 Cont'd

Altitude (ft above sfc)	Wind Dir (deg)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
18500- 18700	16.1	17.4	16.7	4.8		
18700- 18900	29.5	24.0	20.9	11.8		
18900- 19100	31.7	22.4	19.1	11.8		
19100- 19300	37.9	20.6	16.3	12.7		
19300- 19500	23.9	23.5	21.5	9.5		
19500- 19700	28.0	21.8	19.2	10.2		
19700- 19900	37.5	26.3	20.9	16.1		
19900- 20100	23.7	20.9	19.1	8.4		
Integrated ballistic-weighted layer wind:						
100- 20100	0.9	12.3	12.3	0.2		

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TABLE 5

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100-	300	8.1	4.4	4.3	0.6	
300-	500	357.1	9.0	9.0	-0.5	
500-	700	353.7	7.4	7.4	-0.6	
700-	900	8.0	8.5	8.4	1.2	
900-	1100	341.7	9.1	8.6	-2.8	
1100-	1300	344.9	10.0	9.6	-2.6	
1300-	1500	356.5	9.6	9.6	-0.6	
1500-	1700	349.6	7.4	7.3	-1.3	
1700-	1900	350.0	7.3	7.2	-1.3	
1900-	2100	1.3	12.3	12.3	0.3	
2100-	2300	11.6	13.1	12.8	2.6	
2300-	2500	1.9	14.8	14.8	0.5	
2500-	2700	358.7	19.0	19.0	-0.4	
2700-	2900	4.8	22.2	22.1	1.9	
2900-	3100	3.4	24.2	24.1	1.4	
3100-	3300	19.1	20.4	19.3	6.7	
3300-	3500	38.8	12.9	10.0	8.1	
3500-	3700	36.3	11.2	9.1	6.7	
3700-	3900	65.2	9.9	4.1	9.0	
3900-	4100	74.0	6.3	1.7	6.0	
4100-	4300	32.5	6.7	5.7	3.6	
4300-	4500	65.3	7.2	3.0	6.5	
4500-	4700	72.5	8.6	2.6	8.2	
4700-	4900	78.2	5.3	1.1	5.2	
4900-	5100	58.2	8.3	4.4	7.1	
5100-	5300	31.4	16.1	13.7	8.4	
5300-	5500	58.3	7.6	4.0	6.5	
5500-	5700	68.8	7.1	2.6	6.6	
5700-	5900	55.2	7.9	4.5	6.5	
5900-	6100	36.2	9.8	7.9	5.8	
6100-	6300	25.7	10.4	9.3	4.5	
6300-	6500	25.3	9.5	8.6	4.1	
6500-	6700	23.9	8.6	7.9	3.5	
6700-	6900	33.8	9.6	8.0	5.4	
6900-	7100	27.0	9.3	8.3	4.2	
7100-	7300	46.4	7.2	4.9	5.2	
7300-	7500	40.3	6.2	4.7	4.0	
7500-	7700	26.4	7.3	6.5	3.2	
7700-	7900	353.9	5.3	5.3	-0.4	
7900-	8100	358.2	7.1	7.1	-0.2	
8100-	8300	3.9	8.9	8.9	0.6	
8300-	8500	7.5	10.0	9.9	1.3	
8500-	8700	3.0	9.6	9.5	0.5	
8700-	8900	1.5	11.1	11.0	0.3	
8900-	9100	353.2	10.3	10.2	-1.2	
9100-	9300	343.5	11.5	11.0	-3.3	

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TABLE 5 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300- 9500	353.1	12.2	12.1	-1.5		
9500- 9700	349.7	14.0	13.8	-2.5		
9700- 9900	351.0	14.4	14.3	-2.3		
9900- 10100	343.0	15.1	14.5	-4.4		
10100- 10300	346.1	16.5	16.0	-4.0		
10300- 10500	348.9	14.6	14.3	-2.8		
10500- 10700	358.4	17.2	17.2	-0.5		
10700- 10900	356.9	19.3	19.3	-1.1		
10900- 11100	350.7	15.0	14.8	-2.4		
11100- 11300	351.7	14.0	13.8	-2.0		
11300- 11500	344.5	13.0	12.5	-3.5		
11500- 11700	347.1	11.8	11.5	-2.6		
11700- 11900	348.1	13.0	12.7	-2.7		
11900- 12100	347.5	13.8	13.5	-3.0		
12100- 12300	341.3	15.2	14.5	-4.7		
12300- 12500	355.9	13.3	13.3	-1.0		
12500- 12700	347.8	13.2	12.9	-2.8		
12700- 12900	344.1	15.7	15.1	-4.3		
12900- 13100	344.6	13.9	13.4	-3.7		
13100- 13300	335.7	15.7	14.3	-6.4		
13300- 13500	339.6	16.4	15.3	-5.7		
13500- 13700	337.6	15.3	14.1	-5.8		
13700- 13900	341.7	17.0	16.1	-5.3		
13900- 14100	330.5	19.0	16.5	-9.3		
14100- 14300	328.3	19.6	16.7	-10.3		
14300- 14500	322.3	16.5	13.1	-10.1		
14500- 14700	316.4	20.3	14.7	-14.0		
14700- 14900	312.2	20.7	13.9	-15.3		
14900- 15100	310.2	18.4	11.9	-14.0		
15100- 15300	310.5	20.0	13.0	-15.2		
15300- 15500	309.8	17.1	11.0	-13.2		
15500- 15700	309.7	18.4	11.7	-14.1		
15700- 15900	315.9	19.2	13.8	-13.3		
15900- 16100	326.8	20.9	17.5	-11.4		
16100- 16300	346.9	18.6	18.1	-4.2		
16300- 16500	346.0	18.6	18.1	-4.5		
16500- 16700	350.8	19.5	19.2	-3.1		
16700- 16900	2.6	20.5	20.5	0.9		
16900- 17100	17.3	18.4	17.5	5.5		
17100- 17300	8.1	19.6	19.4	2.8		
17300- 17500	19.0	20.6	19.4	6.7		
17500- 17700	10.6	18.7	18.4	3.5		
17700- 17900	24.4	19.4	17.7	8.0		
17900- 18100	22.8	17.4	16.0	6.7	15	
18100- 18300	30.6	19.3	16.6	9.8		

18300- 18500 32.2 19.0 16.1 10.1

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TABLE 5 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
18500- 18700	28.8	20.5	17.9	9.8		
18700- 18900	22.9	20.1	18.5	7.9		
18900- 19100	28.8	21.2	18.6	10.2		
19100- 19300	31.3	21.2	18.1	11.0		
Integrated ballistic-weighted layer wind:						
100- 19300	359.8	12.2	12.2	-0.0		

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TABLE 6

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100-	300	303.7	1.5	0.8	-1.2	
300-	500	351.6	6.4	6.3	-0.9	
500-	700	353.6	6.8	6.8	-0.8	
700-	900	4.3	8.2	8.2	0.6	
900-	1100	359.5	5.9	5.9	-0.0	
1100-	1300	3.4	7.5	7.4	0.4	
1300-	1500	348.0	10.0	9.8	-2.1	
1500-	1700	348.3	10.8	10.6	-2.2	
1700-	1900	11.4	11.8	11.6	2.3	
1900-	2100	355.5	12.1	12.1	-1.0	
2100-	2300	5.9	16.6	16.5	1.7	
2300-	2500	0.2	18.8	18.8	0.1	
2500-	2700	10.0	19.7	19.4	3.4	
2700-	2900	13.0	17.3	16.9	3.9	
2900-	3100	13.4	13.0	12.6	3.0	
3100-	3300	43.9	10.9	7.9	7.6	
3300-	3500	77.9	5.3	1.1	5.2	
3500-	3700	60.4	2.5	1.2	2.2	
3700-	3900	113.3	6.3	-2.5	5.8	
3900-	4100	51.1	6.2	3.9	4.8	
4100-	4300	117.9	3.9	-1.8	3.4	
4300-	4500	111.2	5.7	-2.1	5.3	
4500-	4700	92.5	3.9	-0.2	3.9	
4700-	4900	49.9	7.2	4.7	5.5	
4900-	5100	39.9	6.0	4.6	3.9	
5100-	5300	22.1	7.9	7.3	3.0	
5300-	5500	29.5	12.1	10.5	6.0	
5500-	5700	12.3	16.2	15.8	3.5	
5700-	5900	10.0	20.2	19.9	3.1	
5900-	6100	24.4	12.1	11.0	5.0	
6100-	6300	34.9	11.7	9.6	6.7	
6300-	6500	45.3	6.5	4.6	4.6	
6500-	6700	4.8	8.8	8.8	0.7	
6700-	6900	41.0	9.8	7.4	6.4	
6900-	7100	36.4	12.4	10.0	7.3	
7100-	7300	55.0	12.7	7.3	10.4	
7300-	7500	31.4	11.8	10.1	6.2	
7500-	7700	11.7	8.4	8.3	1.7	
7700-	7900	21.0	2.4	2.2	0.8	
7900-	8100	334.3	4.3	3.9	-1.9	
8100-	8300	338.1	6.3	5.8	-2.3	
8300-	8500	347.9	10.5	10.3	-2.2	
8500-	8700	19.1	7.5	7.1	2.5	
8700-	8900	349.0	8.8	8.7	-1.7	
8900-	9100	334.1	5.9	5.3	-2.6	
9100-	9300	345.3	10.4	10.1	-2.6	



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TABLE 6 Cont'd

Altitude (ft above sfc)	Wind Dir (cegs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300- 9500	344.3	12.3	11.9	-3.3		
9500- 9700	346.9	13.0	12.7	-3.0		
9700- 9900	345.0	15.0	14.5	-3.9		
9900- 10100	332.0	15.4	13.6	-7.2		
10100- 10300	333.9	13.9	12.5	-6.1		
10300- 10500	359.0	14.2	14.2	-0.2		
10500- 10700	324.8	17.5	14.3	-10.1		
10700- 10900	349.0	16.7	16.4	-3.2		
10900- 11100	347.1	17.0	16.6	-3.8		
11100- 11300	336.5	13.8	12.6	-5.5		
11300- 11500	338.2	14.7	13.7	-5.5		
11500- 11700	345.5	11.8	11.4	-3.0		
11700- 11900	346.7	9.4	9.1	-2.2		
11900- 12100	321.4	11.7	9.2	-7.3		
12100- 12300	340.2	12.9	12.1	-4.4		
12300- 12500	343.5	13.3	12.8	-3.8		
12500- 12700	347.4	17.2	16.8	-3.7		
12700- 12900	345.7	16.6	16.0	-4.1		
12900- 13100	337.0	14.3	13.1	-5.6		
13100- 13300	336.3	15.6	14.3	-6.3		
13300- 13500	325.5	15.9	13.1	-9.0		
13500- 13700	316.3	19.1	13.8	-13.2		
13700- 13900	319.0	18.9	14.3	-12.4		
13900- 14100	314.3	25.8	18.0	-18.5		
14100- 14300	315.3	19.2	14.0	-13.1		
14300- 14500	311.4	19.8	13.1	-14.8		
14500- 14700	311.7	22.7	15.1	-16.9		
14700- 14900	315.0	24.6	17.4	-17.4		
14900- 15100	325.9	22.7	18.8	-12.7		
15100- 15300	337.0	22.0	20.3	-8.6		
15300- 15500	344.3	22.3	21.5	-6.0		
15500- 15700	353.9	20.5	20.3	-2.2		
15700- 15900	352.6	21.0	20.9	-2.7		
15900- 16100	359.0	19.8	19.8	-0.3		
16100- 16300	352.5	20.0	19.8	-2.6		
16300- 16500	11.9	20.0	19.5	4.1		
16500- 16700	6.4	16.4	16.3	1.8		
16700- 16900	22.8	12.1	11.1	4.7		
16900- 17100	33.2	17.1	14.3	9.3		
17100- 17300	22.4	17.3	16.0	6.6		
17300- 17500	23.8	18.0	16.5	7.3		
17500- 17700	28.8	19.1	16.7	9.2		
17700- 17900	32.7	17.9	15.1	9.7		
17900- 18100	22.1	17.3	16.0	6.5		
18100- 18300	14.7	20.5	19.8	5.2		
18300- 18500	11.3	21.9	21.4	4.3		

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TABLE 6 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
18500- 18700	35.5	20.3	16.5	11.8		
Integrated ballistic-weighted layer wind:						
100- 18700	357.3	11.8	11.7	-0.6		

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TABLE 7

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100- 300	46.0	1.1	0.8	0.8		
300- 500	10.2	5.6	5.5	1.0		
500- 700	1.4	4.9	4.9	0.1		
700- 900	24.0	2.0	1.8	0.8		
900- 1100	17.7	5.4	5.1	1.6		
1100- 1300	2.6	6.8	6.8	0.3		
1300- 1500	14.7	9.6	9.3	2.4		
1500- 1700	355.6	12.0	11.9	-0.9		
1700- 1900	345.3	10.9	10.6	-2.8		
1900- 2100	7.0	8.1	8.0	1.0		
2100- 2300	13.9	15.3	14.8	3.7		
2300- 2500	23.3	15.6	14.3	6.2		
2500- 2700	11.1	14.0	13.8	2.7		
2700- 2900	32.4	12.3	10.4	6.6		
2900- 3100	66.7	11.5	4.6	10.5		
3100- 3300	82.0	8.1	1.1	8.0		
3300- 3500	90.7	5.2	-0.1	5.2		
3500- 3700	70.1	4.0	1.4	3.8		
3700- 3900	79.9	5.1	0.9	5.1		
3900- 4100	115.8	6.0	-2.6	5.4		
4100- 4300	114.2	7.1	-2.9	6.5		
4300- 4500	113.3	4.6	-1.8	4.2		
4500- 4700	83.2	7.1	0.8	7.0		
4700- 4900	45.6	8.4	5.8	6.0		
4900- 5100	49.1	1.4	0.9	1.0		
5100- 5300	15.6	6.7	6.5	1.8		
5300- 5500	46.6	6.6	4.6	4.8		
5500- 5700	29.0	8.1	7.1	3.9		
5700- 5900	28.6	8.4	7.4	4.0		
5900- 6100	34.9	13.2	10.8	7.5		
6100- 6300	35.2	17.9	14.6	10.3		
6300- 6500	32.8	10.3	8.7	5.6		
6500- 6700	40.1	8.7	6.6	5.6		
6700- 6900	43.2	8.2	6.0	5.6		
6900- 7100	40.1	9.0	6.9	5.3		
7100- 7300	49.8	10.9	7.0	8.3		
7300- 7500	70.5	10.4	3.5	9.8		
7500- 7700	34.0	3.9	3.3	2.2		
7700- 7900	352.5	3.2	3.2	-0.4		
7900- 8100	337.0	5.1	4.7	-2.0		
8100- 8300	325.2	7.2	5.9	-4.1		
8300- 8500	340.1	7.5	7.0	-2.5		
8500- 8700	352.7	9.0	8.9	-1.1		
8700- 8900	350.3	10.1	10.0	-1.7		
8900- 9100	342.3	9.9	9.4	-3.0		
9100- 9300	342.3	10.4	9.9	-3.2		

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TABLE 7 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300-	9500	328.9	11.0	9.4	-5.7	
9500-	9700	332.8	11.7	10.4	-5.3	
9700-	9900	332.4	10.2	9.0	-4.7	
9900-	10100	333.9	13.8	12.4	-6.1	
10100-	10300	332.4	12.3	10.9	-5.7	
10300-	10500	331.7	17.0	15.0	-8.1	
10500-	10700	343.5	13.4	12.8	-3.8	
10700-	10900	342.0	15.6	14.9	-4.8	
10900-	11100	342.8	16.8	16.1	-5.0	
11100-	11300	342.2	14.6	13.9	-4.5	
11300-	11500	340.2	15.0	14.1	-5.1	
11500-	11700	342.2	14.6	13.9	-4.5	
11700-	11900	340.7	15.1	14.2	-5.0	
11900-	12100	340.4	15.9	14.3	-5.3	
12100-	12300	343.7	17.6	16.9	-4.9	
12300-	12500	340.1	19.4	18.2	-6.6	
12500-	12700	332.5	20.7	18.4	-9.5	
12700-	12900	337.6	21.4	19.7	-8.2	
12900-	13100	328.9	20.8	17.8	-10.7	
13100-	13300	336.7	20.5	18.9	-8.1	
13300-	13500	328.4	20.9	17.8	-11.0	
13500-	13700	323.1	21.3	17.0	-12.8	
13700-	13900	325.8	21.6	17.3	-12.2	
13900-	14100	320.9	22.9	17.7	-14.4	
14100-	14300	318.6	24.9	18.7	-16.5	
14300-	14500	323.7	20.0	16.1	-11.9	
14500-	14700	325.0	24.8	20.3	-14.2	
14700-	14900	337.2	24.0	22.2	-9.3	
14900-	15100	344.8	20.2	19.5	-5.3	
15100-	15300	349.5	20.4	20.1	-3.7	
15300-	15500	359.1	19.2	19.2	-0.3	
15500-	15700	1.5	16.0	16.0	0.4	
15700-	15900	3.8	14.8	14.7	1.0	
15900-	16100	11.6	14.7	14.4	3.0	
16100-	16300	18.4	14.7	13.9	4.6	
16300-	16500	17.5	15.1	14.4	4.5	
16500-	16700	12.3	15.6	15.3	3.3	
16700-	16900	0.8	18.3	18.3	0.3	
16900-	17100	13.5	19.4	18.9	4.5	
17100-	17300	20.7	21.3	19.9	7.5	
17300-	17500	14.7	17.3	16.7	4.4	
17500-	17700	10.8	20.1	19.8	3.8	
17700-	17900	16.7	23.5	22.5	6.8	
17900-	18100	19.2	22.9	21.6	7.5	
18100-	18300	17.9	25.0	23.8	7.7	
18300-	18500	10.4	25.2	24.7	4.5	

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TABLE 7 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
18500- 18700	19.7	24.1	22.7	8.1		
18700- 18900	15.3	23.0	22.1	6.1		
Integrated ballistic-weighted layer wind:						
100- 18900	359.4	11.7	11.7	-0.1		

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TABLE 8

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100-	300	252.6	7.3	-2.2	-6.9	
300-	500	349.5	5.2	5.1	-0.9	
500-	700	320.8	2.8	2.1	-1.7	
700-	900	353.8	6.4	6.4	-0.7	
900-	1100	17.1	7.2	6.9	2.1	
1100-	1300	356.6	8.4	8.4	-0.5	
1300-	1500	357.5	9.8	9.8	-0.4	
1500-	1700	0.9	7.0	7.0	0.1	
1700-	1900	341.7	6.3	6.0	-2.0	
1900-	2100	353.4	10.5	10.4	-1.2	
2100-	2300	2.3	11.2	11.2	0.5	
2300-	2500	13.1	14.1	13.7	3.2	
2500-	2700	14.3	17.4	16.8	4.3	
2700-	2900	18.7	8.4	8.0	2.7	
2900-	3100	40.5	7.0	5.3	4.5	
3100-	3300	34.2	3.6	0.4	3.6	
3300-	3500	113.5	7.1	-2.8	6.5	
3500-	3700	144.4	4.5	-3.7	2.6	
3700-	3900	120.8	8.5	-4.4	7.4	
3900-	4100	91.7	9.7	-0.3	9.7	
4100-	4300	101.8	8.2	-1.7	8.1	
4300-	4500	100.5	4.1	-0.7	4.0	
4500-	4700	72.1	6.8	2.1	6.5	
4700-	4900	76.8	5.7	1.3	5.6	
4900-	5100	93.9	5.3	-0.4	5.3	
5100-	5300	123.6	8.7	-4.8	7.2	
5300-	5500	117.7	3.9	-1.8	3.5	
5500-	5700	92.7	5.0	-0.2	5.0	
5700-	5900	88.0	8.5	0.3	8.5	
5900-	6100	109.9	6.7	-2.3	6.3	
6100-	6300	78.4	7.4	1.5	7.3	
6300-	6500	51.0	9.1	5.7	7.1	
6500-	6700	42.5	11.8	8.7	7.9	
6700-	6900	47.8	10.4	7.0	7.7	
6900-	7100	67.2	5.5	2.1	5.1	
7100-	7300	46.1	6.9	4.8	5.0	
7300-	7500	33.4	8.6	7.2	4.7	
7500-	7700	66.7	8.2	3.3	7.6	
7700-	7900	45.3	7.4	5.2	5.2	
7900-	8100	40.2	6.0	4.6	3.9	
8100-	8300	43.4	4.3	3.1	2.9	
8300-	8500	349.5	5.7	5.6	-1.0	
8500-	8700	353.5	4.3	4.3	-0.5	
8700-	8900	351.7	7.5	7.5	-1.1	
8900-	9100	359.4	7.3	7.3	-0.1	
9100-	9300	351.8	11.0	10.9	-1.6	

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TABLE 8 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300-9500	348.0	10.0	9.8	-2.1		
9500-9700	334.4	10.9	9.9	-4.7		
9700-9900	333.8	12.4	11.1	-5.5		
9900-10100	343.3	12.6	12.1	-3.6		
10100-10300	337.8	13.5	12.5	-5.1		
10300-10500	341.9	13.2	12.5	-4.1		
10500-10700	345.2	14.2	13.7	-3.6		
10700-10900	345.9	14.7	14.2	-3.6		
10900-11100	347.9	15.2	14.8	-3.2		
11100-11300	347.8	19.0	18.6	-4.0		
11300-11500	338.1	17.1	15.9	-6.4		
11500-11700	340.5	15.6	14.7	-5.2		
11700-11900	339.6	16.4	15.4	-5.7		
11900-12100	346.7	17.0	16.5	-3.9		
12100-12300	343.3	20.1	19.3	-5.8		
12300-12500	333.6	20.5	18.4	-9.1		
12500-12700	332.1	19.5	17.2	-9.1		
12700-12900	323.3	20.0	16.1	-12.0		
12900-13100	330.2	25.3	22.0	-12.6		
13100-13300	325.7	24.1	19.9	-13.6		
13300-13500	324.8	22.5	18.3	-13.0		
13500-13700	335.5	21.0	19.1	-8.7		
13700-13900	342.7	20.9	19.9	-6.2		
13900-14100	345.5	23.2	22.4	-5.8		
14100-14300	353.1	24.5	24.3	-3.0		
14300-14500	359.0	26.2	26.2	-0.5		
14500-14700	358.0	26.6	26.6	-0.9		
14700-14900	6.6	28.8	28.6	3.3		
14900-15100	0.2	32.0	32.0	0.1		
15100-15300	3.3	30.4	30.4	1.7		
15300-15500	358.4	28.2	28.2	-0.8		
15500-15700	357.5	26.8	26.8	-1.1		
15700-15900	5.8	23.4	23.3	2.3		
15900-16100	359.8	24.4	24.4	-0.1		
16100-16300	2.6	25.8	25.7	1.2		
16300-16500	3.6	21.4	21.4	1.4		
16500-16700	0.3	18.1	18.1	0.1		
16700-16900	1.8	18.8	18.8	0.6		
16900-17100	357.8	14.8	14.8	-0.6		
17100-17300	23.5	15.2	13.9	6.1		
17300-17500	26.1	11.6	10.5	5.1		
17500-17700	14.7	14.3	13.8	3.6		
17700-17900	17.2	15.9	15.2	4.7		
17900-18100	14.0	16.2	15.7	3.9		
18100-18300	11.5	18.9	18.5	3.8		
18300-18500	18.7	16.2	15.3	5.2		

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TABLE 8 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
18500- 18700	4.3	19.0	19.0	1.4		
18700- 18900	13.3	21.8	21.2	5.0		
18900- 19100	13.3	21.5	20.9	5.0		
19100- 19300	9.1	22.1	21.8	3.5		
19300- 19500	9.6	23.6	23.3	3.9		
19500- 19700	16.8	22.7	21.8	6.6		
19700- 19900	6.7	24.7	24.6	2.9		
19900- 20100	11.2	20.1	19.7	3.9		
Integrated ballistic-weighted layer winds:						
100- 20100	3.1	12.1	12.1	0.6		



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TABLE 9

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100-	300	206.8	3.4	-3.0	-1.5	
300-	500	272.7	2.2	0.1	-2.2	
500-	700	320.3	5.6	4.3	-3.6	
700-	900	324.5	3.8	3.1	-2.2	
900-	1100	328.9	3.1	2.7	-1.6	
1100-	1300	323.2	2.9	2.3	-1.7	
1300-	1500	29.8	2.5	2.1	1.2	
1500-	1700	328.7	4.4	3.8	-2.3	
1700-	1900	354.2	5.5	5.5	-0.6	
1900-	2100	358.1	7.6	7.6	-0.3	
2100-	2300	17.8	9.7	9.2	3.0	
2300-	2500	0.6	6.8	6.8	0.1	
2500-	2700	31.3	2.8	2.4	1.5	
2700-	2900	244.8	0.6	-0.3	-0.6	
2900-	3100	163.8	4.0	-3.8	1.1	
3100-	3300	148.1	6.3	-5.4	3.3	
3300-	3500	124.8	12.3	-7.0	10.1	
3500-	3700	107.7	14.1	-4.3	13.4	
3700-	3900	97.4	14.3	-1.8	14.2	
3900-	4100	92.1	11.8	-0.4	11.8	
4100-	4300	31.3	10.7	1.8	10.5	
4300-	4500	100.3	9.2	-1.7	9.1	
4500-	4700	101.0	10.2	-1.9	10.0	
4700-	4900	120.9	8.5	-4.4	7.3	
4900-	5100	120.7	12.7	-6.5	10.9	
5100-	5300	104.9	10.7	-2.8	10.3	
5300-	5500	87.5	11.7	0.5	11.7	
5500-	5700	86.0	9.1	0.6	9.1	
5700-	5900	67.7	8.4	3.2	7.7	
5900-	6100	127.6	3.0	-1.8	2.4	
6100-	6300	85.6	5.2	0.4	5.1	
6300-	6500	65.2	5.1	2.1	4.6	
6500-	6700	52.4	5.3	3.3	4.2	
6700-	6900	50.7	5.5	3.5	4.2	
6900-	7100	34.3	7.6	6.2	4.3	
7100-	7300	16.8	7.5	7.2	2.2	
7300-	7500	12.8	8.8	8.6	1.9	
7500-	7700	29.3	12.4	10.8	6.0	
7700-	7900	23.4	11.8	10.8	4.7	
7900-	8100	19.4	12.5	11.8	4.2	
8100-	8300	13.6	10.7	10.4	2.5	
8300-	8500	3.4	7.8	7.8	0.5	
8500-	8700	4.8	9.9	9.9	0.8	
8700-	8900	8.7	12.8	12.6	1.9	
8900-	9100	9.4	13.4	13.3	2.2	
9100-	9300	13.4	15.0	14.6	3.5	

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TABLE 9 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300- 9500	5.1	17.4	17.3	1.5		
9500- 9700	17.5	17.8	17.0	5.4		
9700- 9900	26.9	18.1	16.1	8.2		
9900- 10100	28.8	24.1	21.1	11.6		
10100- 10300	30.4	18.6	16.0	9.4		
10300- 10500	32.5	22.6	19.0	12.2		
10500- 10700	36.7	21.0	16.9	12.5		
10700- 10900	37.8	24.4	19.3	14.9		
10900- 11100	32.0	20.5	17.4	10.8		
11100- 11300	35.7	20.6	16.8	12.0		
11300- 11500	34.0	23.3	19.3	13.0		
11500- 11700	31.0	22.6	19.4	11.6		
11700- 11900	47.7	21.8	14.7	16.2		
11900- 12100	28.8	26.3	23.0	12.6		
12100- 12300	34.2	23.9	19.8	13.4		
12300- 12500	37.9	22.9	18.1	14.1		
12500- 12700	39.4	27.7	21.4	17.6		
12700- 12900	26.2	23.4	21.0	10.4		
12900- 13100	35.0	21.2	17.4	12.2		
13100- 13300	40.7	23.8	18.0	15.5		
13300- 13500	17.2	27.1	25.9	8.0		
13500- 13700	26.3	21.3	19.0	9.4		
13700- 13900	13.2	17.6	17.2	4.0		
13900- 14100	15.0	16.9	16.4	4.4		
14100- 14300	3.2	25.1	25.1	1.4		
14300- 14500	18.1	17.2	16.3	5.3		
14500- 14700	17.8	28.1	26.8	8.6		
14700- 14900	18.4	30.5	29.0	9.6		
14900- 15100	20.7	21.1	19.7	7.5		
15100- 15300	17.5	25.0	23.9	7.5		
15300- 15500	27.3	23.9	21.3	11.0		
15500- 15700	32.6	20.9	17.6	11.3		
15700- 15900	10.5	17.9	17.6	3.3		
15900- 16100	18.9	25.2	23.8	8.2		
16100- 16300	23.4	22.0	20.2	8.7		
16300- 16500	28.5	23.7	20.8	11.3		

Integrated ballistic-weighted layer wind:

100- 16500 32.3 12.3 10.4 5.6

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TABLE 10

Altitude (ft above sfc)	Wind Dir (degs)	Wind Sod (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
100-	300	120.8	1.8	-0.9	1.6	
300-	500	124.6	0.4	-0.2	0.3	
500-	700	243.7	2.9	-1.3	-2.6	
700-	900	254.6	5.2	-1.4	-5.0	
900-	1100	255.5	6.2	-1.6	-6.0	
1100-	1300	290.2	2.8	1.0	-2.6	
1300-	1500	356.7	4.2	4.2	-0.2	
1500-	1700	343.4	7.2	6.9	-2.1	
1700-	1900	345.5	7.9	7.7	-2.0	
1900-	2100	2.5	5.9	5.9	0.3	
2100-	2300	3.4	4.0	4.0	0.2	
2300-	2500	342.9	3.9	3.8	-1.2	
2500-	2700	13.1	2.7	2.6	0.6	
2700-	2900	92.0	0.4	-0.0	0.4	
2900-	3100	185.6	3.2	-3.2	-0.3	
3100-	3300	127.3	3.7	-2.2	2.9	
3300-	3500	122.7	8.5	-4.6	7.2	
3500-	3700	103.7	10.1	-2.4	9.8	
3700-	3900	106.2	9.1	-2.5	8.8	
3900-	4100	96.2	11.4	-1.2	11.3	
4100-	4300	93.1	11.2	-0.6	11.2	
4300-	4500	96.2	10.3	-1.1	10.2	
4500-	4700	81.7	8.1	1.2	8.0	
4700-	4900	58.8	7.8	4.1	6.7	
4900-	5100	49.0	8.0	5.3	6.1	
5100-	5300	51.7	7.2	4.5	5.6	
5300-	5500	51.6	8.2	5.1	6.4	
5500-	5700	55.6	7.1	4.0	5.9	
5700-	5900	58.8	6.5	3.4	5.6	
5900-	6100	76.8	7.6	1.7	7.4	
6100-	6300	72.2	4.3	1.5	4.6	
6300-	6500	37.0	2.9	2.4	1.8	
6500-	6700	45.3	5.8	4.1	4.1	
6700-	6900	39.2	4.7	3.6	3.0	
6900-	7100	23.0	3.7	3.4	1.5	
7100-	7300	23.6	6.5	5.9	2.6	
7300-	7500	7.1	7.2	7.2	0.9	
7500-	7700	18.3	9.6	9.1	3.0	
7700-	7900	20.6	11.6	10.8	4.1	
7900-	8100	25.7	10.6	9.6	4.6	
8100-	8300	16.5	11.9	11.2	3.8	
8300-	8500	21.0	12.6	11.8	4.5	
8500-	8700	12.8	12.0	11.7	2.7	
8700-	8900	12.5	13.1	12.8	2.8	
8900-	9100	12.2	13.8	13.5	2.9	
9100-	9300	16.3	15.1	14.5	4.2	

11:22:57 01-10-86

TABLE 10 Cont'd

Ka 9

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
9300- 9500	20.9	15.6	14.6	5.6		
9500- 9700	21.7	16.4	15.3	6.1		
9700- 9900	32.0	18.1	15.3	9.6		
9900- 10100	32.9	19.4	16.3	10.6		
10100- 10300	36.2	20.1	16.2	11.9		
10300- 10500	43.1	20.0	14.6	13.7		
10500- 10700	49.5	21.4	13.9	16.3		
10700- 10900	51.4	19.3	12.0	15.1		
10900- 11100	49.4	22.4	14.6	17.0		
11100- 11300	44.1	23.6	16.9	16.4		
11300- 11500	43.0	22.4	16.4	15.3		
11500- 11700	40.8	24.5	18.6	16.0		
11700- 11900	45.3	24.4	17.1	17.3		
11900- 12100	48.6	23.0	15.2	17.2		
12100- 12300	44.7	24.5	17.4	17.2		
12300- 12500	47.7	21.7	14.6	16.0		
12500- 12700	46.5	21.9	15.1	15.9		
12700- 12900	40.5	20.2	15.3	13.1		
12900- 13100	30.7	18.1	15.6	9.3		
13100- 13300	42.3	21.1	15.6	14.2		
13300- 13500	41.6	23.5	17.6	15.6		
13500- 13700	36.4	25.5	20.5	15.1		
13700- 13900	38.5	23.1	18.0	14.4		
13900- 14100	40.0	25.6	19.6	16.5		
14100- 14300	46.4	23.5	16.2	17.0		
14300- 14500	45.3	24.2	17.0	17.2		
14500- 14700	51.2	22.9	14.4	17.9		
14700- 14900	51.9	24.6	15.2	19.3		
14900- 15100	53.7	28.4	16.8	22.9		
15100- 15300	52.0	31.5	19.4	24.8		
15300- 15500	39.1	26.3	20.4	16.6		
15500- 15700	46.0	33.9	23.6	24.4		
15700- 15900	39.8	33.4	25.7	21.4		
15900- 16100	41.6	35.7	26.7	23.7		
16100- 16300	30.6	39.3	33.8	20.0		
16300- 16500	30.5	38.1	32.8	19.3		
16500- 16700	28.4	40.4	35.5	19.2		
16700- 16900	27.9	40.5	35.8	18.9		
16900- 17100	20.2	41.1	38.6	14.2		
17100- 17300	21.0	38.2	35.6	13.7		
17300- 17500	11.8	37.0	36.3	7.6		
17500- 17700	15.1	32.5	31.4	8.5		
17700- 17900	15.0	34.3	33.0	9.4		
17900- 18100	14.6	34.0	32.9	8.6		
18100- 18300	16.9	33.3	31.8	9.7		
18300- 18500	16.5	32.4	31.0	9.2		

11:22:57 01-10-86

ka 9

TABLE 10 Cont'd

Altitude (ft above sfc)	Wind Dir (degs)	Wind Spd (kts)	N/S Component (kts)	E/W Component (kts)	X Displacement (ft)	Y Displacement (ft)
18500- 18700	22.9	31.8	29.3	12.4		
18700- 18900	19.7	31.8	30.0	10.7		
18900- 19100	19.7	30.6	28.8	10.3		
19100- 19300	24.4	28.0	25.5	11.6		
19300- 19500	23.0	31.3	28.8	12.2		
19500- 19700	20.4	30.2	28.3	10.5		
19700- 19900	26.9	30.7	27.4	13.9		
19900- 20100	27.5	27.5	24.4	12.7		

Integrated ballistic-weighted layer wind:

100- 20100	34.1	16.8	13.9	9.4
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STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 26  
ASCENSION NO. 4

SIGNIFICANT LEVEL DATA  
0100060004  
S M R  
TABLE 11

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LONG DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT
891.1	3997.3	-6.0	-10.0	73.0
879.8	4331.0	2.5	-3.6	64.0
865.7	4760.8	3.3	-5.6	52.0
850.0	5250.2	5.4	-5.9	44.0
822.7	6124.0	3.9	-7.8	42.0
783.6	7426.3	4.9	-8.2	38.0
748.3	8662.0	5.2	-10.9	33.0
700.0	10440.1	1.6	-12.2	35.0
542.4	17021.1	-12.4	-26.3	30.0
500.0	19048.0	-17.0	-30.7	29.0
436.0	22368.8	-26.1	-37.5	33.0
400.0	24404.5	-30.0	-42.9	27.0
356.3	27077.6	-36.9	-49.0	27.0

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

UPPER AIR DATA  
0100060004  
S M R

TABLE 12

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86 0200 HRS MST  
ASCENSION NO. 4

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3997.3	891.1	-6.0	73.0	1160.6	637.1	.0	.0	1.000274
4000.0	891.0	-5.9	72.9	1160.2	637.2	2.4	.0	1.000274
4500.0	874.2	2.8	59.3	1101.5	647.8	2.4	2.2	1.000267
5000.0	858.0	4.3	48.1	1075.3	649.5	2.4	4.4	1.000259
5500.0	842.1	5.0	43.4	1053.0	650.2	2.4	6.7	1.000253
6000.0	826.5	4.1	42.3	1036.8	649.2	2.4	8.9	1.000248
6500.0	811.2	4.2	40.8	1017.4	649.3	9.6	12.5	1.000243
7000.0	796.2	4.6	39.3	997.1	649.7	15.1	16.7	1.000238
7500.0	781.4	4.9	37.5	977.5	650.1	21.5	17.8	1.000234
8000.0	767.0	5.0	34.3	959.1	650.3	28.6	18.2	1.000228
8500.0	752.8	5.2	31.0	941.0	650.4	40.7	15.9	1.000223
9000.0	738.9	4.5	31.0	925.8	649.6	52.5	15.1	1.000219
9500.0	725.1	3.5	32.4	911.9	648.4	57.1	15.8	1.000216
10000.0	711.7	2.5	33.6	898.2	647.2	59.0	16.0	1.000212
10500.0	698.4	1.5	35.0	884.8	646.0	57.9	15.4	1.000209
11000.0	685.0	.4	34.6	871.2	644.7	55.0	14.8	1.000205
11500.0	671.8	-7	34.2	857.9	643.5	50.5	14.1	1.000201
12000.0	658.9	-1.7	33.8	844.8	642.2	42.1	13.3	1.000198
12500.0	646.3	-2.8	33.4	831.9	640.9	32.1	12.8	1.000194
13000.0	633.9	-3.8	33.1	819.2	639.6	21.6	11.7	1.000190
13500.0	621.7	-4.9	32.7	806.7	638.3	9.8	11.1	1.000187
14000.0	609.6	-6.0	32.3	794.5	637.0	359.0	11.1	1.000184
14500.0	598.1	-7.0	31.9	782.4	635.7	351.7	11.6	1.000180
15000.0	586.6	-8.1	31.5	770.5	634.5	348.7	12.3	1.000177
15500.0	575.3	-9.2	31.2	758.8	633.2	348.8	13.2	1.000174
16000.0	564.3	-10.2	30.6	747.2	631.9	350.0	14.2	1.000171
16500.0	553.5	-11.3	30.4	735.9	630.6	346.7	14.6	1.000168
17000.0	542.8	-12.4	30.0	724.8	629.3	342.8	15.0	1.000165
17500.0	532.1	-13.5	29.8	713.5	627.9	336.9	15.5	1.000163
18000.0	521.5	-14.6	29.5	702.4	626.5	332.6	16.1	1.000160
18500.0	511.1	-15.8	29.3	691.5	625.1	330.2	16.6	1.000157
19000.0	501.0	-16.9	29.0	680.8	623.8	327.5	16.9	1.000154
19500.0	490.8	-18.2	29.5	670.5	622.1	324.6	17.2	1.000152
20000.0	480.7	-19.6	30.1	660.3	620.4	321.9	17.7	1.000149
20500.0	470.9	-21.0	30.7	650.4	618.7	319.3	18.0	1.000147
21000.0	461.3	-22.3	31.4	640.6	617.0	316.8	17.9	1.000145
21500.0	451.9	-23.7	32.0	631.0	615.3	315.8	17.3	1.000142
22000.0	442.7	-25.1	32.6	621.5	613.7	316.4	16.4	1.000140
22500.0	433.6	-26.4	32.6	611.9	612.1	327.6	16.0	1.000138
23000.0	424.5	-27.3	31.1	601.4	610.9	342.0	16.4	1.000135

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86  
ASCENSION NO. 4

UPPER AIR DATA  
0100060004  
S M R

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

TABLE 12 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	DEGREES(TN)	DIRECTION	SPEED KNOTS	
23500.0	415.6	-28.3	-40.5	29.7	591.1	609.7	1.9	17.4	17.4	1.000133
24000.0	406.9	-29.2	-41.8	28.2	581.1	608.5	17.7	19.2	19.2	1.000130
24500.0	398.4	-30.2	-43.1	27.0	571.2	607.2	30.4	20.7	20.7	1.000128
25000.0	389.8	-31.5	-44.2	27.0	562.0	605.6	34.9	23.0	23.0	1.000126
25500.0	381.5	-32.8	-45.4	27.0	552.9	604.0	35.9	25.2	25.2	1.000124
26000.0	373.3	-34.1	-46.5	27.0	544.0	602.3	34.8	26.6	26.6	1.000122
26500.0	365.3	-35.4	-47.6	27.0	535.3	600.7				1.000120
27000.0	357.5	-36.7	-48.8	27.0	526.7	599.1				1.000118



STATION ALTITUDE 3997.30 FEET MSL  
 10 JAN. 86 0200 HRS MST  
 ASCENSION NO. 4

MANDATORY LEVELS  
 0100060004  
 S M R

GEODETIC COORDINATES  
 32.48034 LAT DEG  
 106.42307 LON DEG

TABLE 13

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
		AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5246.	5.4	-5.9	44.	2.4	5.5
800.0	6866.	4.5	-8.0	40.	13.9	15.5
750.0	8593.	5.2	-10.8	30.	43.5	15.6
700.0	10430.	1.6	-12.2	35.	58.0	15.5
650.0	12374.	-2.5	-16.3	34.	34.5	12.9
600.0	14441.	-6.9	-20.7	32.	352.1	11.5
550.0	16649.	-11.6	-25.6	30.	345.5	14.7
500.0	19021.	-17.0	-30.7	29.	327.2	16.9
450.0	21580.	-24.0	-35.9	32.	316.0	17.1
400.0	24364.	-30.0	-42.9	27.	27.8	20.3

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86  
ASCENSION NO. 5 0400 HRS MST

SIGNIFICANT LEVEL DATA  
0100060005  
S M R

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

TABLE 14

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
891.8	3997.3	-8.0	-16.6	53.0
884.5	4210.1	-0.6	-5.8	68.0
870.2	4640.7	2.6	-4.8	58.0
850.0	5265.7	3.4	-6.0	50.0
830.9	5872.3	4.3	-7.2	43.0
791.5	7169.0	3.4	-8.0	43.0
765.3	8069.0	5.2	-9.7	33.0
727.3	9430.4	3.4	-12.9	29.0
700.0	10446.6	1.6	-12.2	35.0
598.9	14514.5	-6.6	-21.6	29.0
539.0	17190.8	-12.5	-27.2	28.0
500.0	19060.5	-17.1	-30.8	29.0
472.5	20446.1	-20.8	-33.7	30.0
400.0	24428.9	-29.3	-41.9	28.0
350.8	27463.4	-37.3	-48.7	29.0

STATION ALTITUDE 3997.30 FEET MSL  
 10 JAN. 86  
 ASCENSION NO. 5

UPPER AIR DATA  
 0100060005  
 S M R

GEODETIC COORDINATES  
 32.48034 LAT DEG  
 106.42307 LON DEG

TABLE 15

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3597.3	891.8	-8.0	50.0	1170.9	634.6		0	1.000270
4000.0	891.7	-7.9	50.2	1170.3	634.7		0	1.000270
4500.0	874.8	1.6	61.3	1107.4	646.3		5.3	1.000268
5000.0	858.5	3.1	53.4	1080.9	648.0		5.3	1.000261
5500.0	842.6	3.7	47.3	1058.2	648.8		5.3	1.000254
6000.0	826.9	4.2	43.0	1036.9	649.3		5.5	1.000249
6500.0	811.6	3.9	43.0	1019.0	648.9		9.2	1.000244
7000.0	796.5	3.5	43.0	1001.3	648.5		11.9	1.000240
7500.0	781.8	4.1	39.3	980.9	649.1		21.8	1.000234
8000.0	767.3	5.1	33.8	959.4	650.3		33.8	1.000228
8500.0	753.1	4.6	31.7	943.1	649.7		47.0	1.000223
9000.0	739.1	4.0	30.3	928.0	648.9		65.7	1.000219
9500.0	725.4	3.3	29.4	913.1	648.1		51.8	1.000215
10000.0	711.9	2.4	32.4	898.9	647.1		44.0	1.000212
10500.0	698.6	1.5	34.9	884.9	646.0		40.9	1.000209
11000.0	685.3	0.5	34.2	871.4	644.8		38.9	1.000205
11500.0	672.3	-0.5	33.4	858.1	643.6		37.5	1.000201
12000.0	659.5	-1.5	32.7	845.0	642.4		36.5	1.000197
12500.0	647.0	-2.5	32.0	832.1	641.2		35.8	1.000194
13000.0	634.7	-3.5	31.2	819.4	640.0		35.5	1.000190
13500.0	622.7	-4.6	30.5	806.9	638.7		35.2	1.000187
14000.0	610.8	-5.6	29.8	794.6	637.5		34.9	1.000183
14500.0	599.2	-6.6	29.0	782.5	636.3		34.6	1.000180
15000.0	587.6	-7.7	28.8	770.5	635.0		34.3	1.000177
15500.0	576.1	-8.8	28.6	758.7	633.6		34.1	1.000174
16000.0	564.9	-9.9	28.4	747.0	632.3		33.8	1.000171
16500.0	553.9	-11.0	28.3	735.6	631.0		33.6	1.000168
17000.0	543.1	-12.1	28.1	724.3	629.6		33.3	1.000165
17500.0	532.3	-13.3	28.2	713.3	628.2		32.4	1.000162
18000.0	521.8	-14.5	28.4	702.4	626.7		31.1	1.000160
18500.0	511.4	-15.7	28.7	691.8	625.2		30.1	1.000157
19000.0	501.2	-17.0	29.0	681.3	623.7		28.9	1.000154
19500.0	491.1	-18.3	29.3	671.0	622.1		27.6	1.000152
20000.0	481.2	-19.6	29.7	660.9	620.4		26.3	1.000149
20500.0	471.4	-20.9	30.0	650.9	618.8		25.0	1.000147
21000.0	461.7	-22.0	29.7	640.2	617.5		23.6	1.000144
21500.0	452.1	-23.0	29.5	629.6	616.2		22.2	1.000142
22000.0	442.8	-24.1	29.2	619.2	614.9		21.9	1.000139
22500.0	433.6	-25.2	29.0	609.0	613.5		22.2	1.000137
23000.0	424.6	-26.3	28.7	599.0	612.2		22.6	1.000135

STATION ALTITUDE 3997.30 FEET MSL				UPPER AIR DATA		GEODETIC COORDINATES						
10 JAN. 86				0100060005		32.48034 LAT DEG						
ASCENSION NO. 5				S M R		106.42307 LON DEG						
0400 HRS MST				TABLE 15 Cont'd								
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS		WIND DATA		INDEX OF REFRACTION		
		AIR DEGREES	DEWPOINT CENTIGRADE			DIRECTION DEGREES(TN)	SPEED KNOTS					
23500.0	415.8	-27.3	-40.0	28.5	589.2	610.9	23.3	15.3	1.000132			
24000.0	407.2	-28.4	-41.0	28.2	579.5	609.5	24.8	9.8	1.000130			
24500.0	398.8	-29.5	-42.1	28.0	570.0	608.2	30.0	4.4	1.000128			
25000.0	390.2	-30.8	-43.2	28.2	560.9	606.5	167.4	1.3	1.000126			
25500.0	381.9	-32.1	-44.3	28.4	551.9	604.9	194.3	6.6	1.000124			
26000.0	373.7	-33.4	-45.4	28.5	543.1	603.2	197.2	12.0	1.000122			
26500.0	365.7	-34.8	-46.5	28.7	534.4	601.5			1.000120			
27000.0	357.9	-36.1	-47.7	28.8	525.9	599.9			1.000118			

STATION ALTITUDE 397.30 FEET MSL  
 10 JAN. 86  
 ASCENSION NO. 5

MANDATORY LEVELS  
 0100060005  
 S M R  
 TABLE 16

GEODETIC COORDINATES  
 32.48034 LAT DEG  
 106.42307 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5262.	3.4	-6.0	50.	5.3	6.5	
800.0	6879.	3.6	-7.8	43.	11.3	13.9	
750.0	8602.	4.5	-11.0	31.	50.6	10.3	
700.0	10436.	1.6	-12.2	35.	41.2	18.3	
650.0	12381.	-2.3	-16.7	32.	35.9	33.9	
600.0	14450.	-6.5	-21.5	29.	34.6	36.4	
550.0	16661.	-11.4	-26.1	28.	33.5	39.1	
500.0	19034.	-17.1	-30.8	29.	28.7	37.6	
450.0	21594.	-23.3	-36.1	29.	21.9	35.3	
400.0	24388.	-29.3	-41.9	28.	28.4	5.3	

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

SIGNIFICANT LEVEL DATA  
0100060006  
S M R

TABLE 17

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 26 0600 HRS MST  
ASCENSION NO. 6

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
891.3	1997.3	-8.3	-16.6	51.0
883.0	4240.2	1.3	-5.8	59.0
870.7	4612.7	3.5	-5.4	52.0
850.0	5254.3	3.7	-6.0	49.0
820.5	6198.7	4.9	-6.6	43.0
800.9	6846.4	4.7	-7.1	42.0
793.6	7092.2	6.3	-8.0	35.0
781.1	7520.4	7.1	-9.3	30.0
700.0	10453.4	1.9	-11.2	37.0
512.2	18471.1	-15.5	-29.1	30.0
500.0	19069.4	-15.6	-29.5	29.0
471.8	20505.2	-17.4	-31.1	29.0
400.0	24482.2	-29.0	-40.4	32.0
349.1	27629.8	-37.5	-47.7	33.0

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86 0600 HRS MST  
ASCENSION NO. 6

UPPER AIR DATA  
0100060006  
S M R

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

TABLE 18

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3997.3	691.3	-8.3	-16.6	51.0	1171.5	634.2	0.0	0.0	1.000270
4000.0	891.2	-8.2	-16.5	51.1	1170.9	634.4	5.1	0.0	1.000270
4500.0	874.4	2.8	-5.5	54.1	1101.8	647.8	5.1	2.9	1.000266
5000.0	856.1	3.6	-5.8	50.2	1078.2	648.7	5.1	5.7	1.000260
5500.0	842.2	4.0	-6.1	47.4	1056.8	649.1	5.1	8.6	1.000254
6000.0	826.6	4.6	-6.5	44.3	1034.8	649.9	5.1	11.4	1.000249
6500.0	811.3	4.8	-6.8	42.5	1015.1	650.1	14.9	10.5	1.000244
7000.0	796.3	5.7	-7.6	37.6	993.2	651.1	30.8	9.2	1.000238
7500.0	781.7	7.1	-9.2	30.2	970.4	652.6	50.6	7.5	1.000231
8000.0	767.2	6.2	-9.5	31.1	955.2	651.7	78.3	6.8	1.000227
8500.0	753.0	5.4	-9.8	32.3	940.5	650.6	72.9	6.2	1.000224
9000.0	739.1	4.5	-10.2	33.5	926.1	649.6	62.4	5.7	1.000220
9500.0	725.4	3.6	-10.5	34.7	911.8	648.5	46.4	6.1	1.000217
10000.0	712.0	2.7	-10.9	35.9	897.8	647.5	33.0	7.2	1.000213
10500.0	698.7	1.8	-11.3	37.0	884.1	646.4	31.5	7.7	1.000210
11000.0	685.3	.7	-12.4	36.5	870.5	645.1	33.3	8.0	1.000206
11500.0	672.0	-4.4	-13.6	36.1	857.2	643.8	27.1	7.9	1.000202
12000.0	659.1	-1.5	-14.7	35.6	844.1	642.5	16.2	7.7	1.000198
12500.0	646.4	-2.5	-15.8	35.2	831.2	641.2	359.8	8.3	1.000194
13000.0	633.9	-3.6	-16.9	34.8	818.5	639.9	343.7	9.8	1.000191
13500.0	621.7	-4.7	-18.0	34.3	806.0	638.6	337.7	11.3	1.000187
14000.0	609.7	-5.8	-19.1	33.9	793.7	637.3	337.1	12.5	1.000184
14500.0	597.9	-6.9	-20.2	33.5	781.6	635.9	338.7	13.6	1.000181
15000.0	586.4	-8.0	-21.4	33.0	769.8	634.6	342.4	14.5	1.000177
15500.0	575.1	-9.1	-22.5	32.6	758.0	633.3	343.2	15.4	1.000174
16000.0	564.0	-10.1	-23.6	32.2	746.5	632.0	341.1	16.2	1.000171
16500.0	553.1	-11.2	-24.7	31.7	735.2	630.7	337.7	17.1	1.000168
17000.0	542.4	-12.3	-25.6	31.3	724.0	629.4	332.4	18.2	1.000165
17500.0	531.9	-13.4	-26.9	30.8	713.1	628.0	328.5	19.1	1.000163
18000.0	521.7	-14.5	-28.0	30.4	702.3	626.7	326.6	19.3	1.000160
18500.0	511.6	-15.5	-29.1	30.0	691.5	625.5	327.7	19.1	1.000157
19000.0	501.4	-15.6	-29.5	29.1	677.9	625.3	338.2	17.8	1.000154
19500.0	491.4	-16.1	-30.0	29.0	665.8	624.7	350.7	17.2	1.000151
20000.0	481.5	-16.8	-30.5	29.0	654.1	623.9	4.0	17.8	1.000148
20500.0	471.9	-17.4	-31.1	29.0	642.5	623.1	10.9	19.0	1.000146
21000.0	462.2	-18.2	-32.2	29.4	633.0	621.4	13.2	20.3	1.000143
21500.0	452.7	-20.3	-33.4	29.8	623.5	619.6	14.2	21.4	1.000141
22000.0	443.4	-21.8	-34.6	30.1	614.3	617.8	14.6	22.3	1.000139
22500.0	434.3	-23.2	-35.7	30.5	605.2	616.0	14.8	23.3	1.000137
23000.0	425.4	-24.7	-36.9	30.9	596.3	614.2	14.9	24.3	1.000134

STATION ALTITUDE 3997.30 FEET MSL  
 10 JAN. 86  
 ASCENSION NO. 6

UPPER AIR DATA  
 0100060006  
 S M R

GEODETIC COORDINATES  
 32.48034 LAT DEG  
 106.42307 LON DEG

TABLE 18 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
23500.0	416.6	-26.1	-38.1	31.3	587.5	612.4		13.5	25.0	1.000132
24000.0	408.1	-27.6	-39.3	31.6	578.8	610.5		12.1	25.8	1.000130
24500.0	399.7	-29.0	-40.4	32.0	570.3	608.7		12.0	25.0	1.000128
25000.0	391.1	-30.4	-41.6	32.2	561.2	607.0		11.9	24.1	1.000126
25500.0	382.8	-31.7	-42.8	32.3	552.3	605.3		12.4	22.0	1.000124
26000.0	374.6	-33.1	-43.9	32.5	543.5	603.6		13.0	19.9	1.000122
26500.0	366.6	-34.4	-45.1	32.6	534.9	601.9				1.000120
27000.0	358.7	-35.8	-46.3	32.8	526.5	600.2				1.000118
27500.0	351.1	-37.1	-47.4	33.0	518.2	598.5				1.000116



GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

MANDATORY LEVELS  
0100060006  
S M R

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86 0600 HRS MST  
ASCENSION NO. 6

TABLE 19

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5250.	3.7	-6.0	49.	5.1	7.2
800.0	6871.	4.9	-7.2	41.	26.4	9.5
750.0	8606.	5.2	-9.9	33.	70.7	6.1
700.0	10443.	1.9	-11.2	37.	31.3	7.7
650.0	12390.	-2.2	-15.5	35.	3.7	8.0
600.0	14458.	-6.7	-20.0	34.	338.5	13.5
550.0	16668.	-11.5	-25.0	32.	335.7	17.4
500.0	19043.	-15.6	-29.5	29.	339.5	17.6
450.0	21631.	-20.7	-33.7	30.	14.3	21.6
400.0	24442.	-29.0	-40.4	32.	12.0	25.0
350.0	27521.	-37.3	-47.6	33.		

STATION ALTITUDE 3997.30 FEET MSL  
 10 JAN. 86  
 ASCENSION NO. 7

SIGNIFICANT LEVEL DATA  
 0100060007  
 S M R

GEODETIC COORDINATES  
 32.48034 LAT DEG  
 106.42307 LON DEG

TABLE 20

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR	TEMPERATURE DEWPOINT	REL. HUM. PERCENT
MILLIBARS	MSL FEET	DEGREES	CENTIGRADE	
892.0	3997.3	-8.3	-12.8	70.0
884.7	4209.8	-1.0	-6.5	66.0
879.8	4356.5	3.0	-3.6	62.0
873.2	4557.4	4.4	-4.1	54.0
850.0	5276.6	3.6	-6.6	47.0
843.0	5497.1	3.6	-6.6	47.0
830.0	5912.4	4.7	-6.5	44.0
812.8	6472.3	3.9	-7.2	44.0
803.0	6796.3	4.2	-7.2	43.0
793.2	7125.3	5.6	-8.6	35.0
761.2	8231.8	5.8	-9.2	33.0
700.0	10466.1	1.1	-11.3	39.0
539.6	17184.9	-11.6	-25.6	30.0
523.6	17941.7	-12.8	-26.7	30.0
500.0	19094.6	-14.7	-28.4	30.0
491.0	19546.3	-15.4	-29.0	30.0
400.0	24504.0	-29.0	-40.1	33.0
385.6	25362.2	-31.6	-42.4	33.0
378.6	25788.5	-31.9	-42.7	33.0
351.0	27530.7	-36.9	-47.2	33.0

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86 0700 HRS MST  
ASCENSION NO. 7

UPPER AIR DATA  
0100060007  
S M R

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

TABLE 21

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3997.3	892.0	-8.3	-12.8	70.0	1172.1	634.3	200.0	2.9	1.000273
4000.0	891.9	-8.2	-12.7	69.9	1171.6	634.4	200.0	2.9	1.000273
4500.0	875.1	4.0	-3.9	56.3	1097.8	649.2	336.8	.7	1.000267
5000.0	858.8	3.9	-5.6	49.7	1078.0	649.0	6.7	4.0	1.000260
5500.0	842.9	3.6	-6.6	47.0	1059.2	648.6	9.3	7.4	1.000254
6000.0	827.3	4.6	-6.6	44.0	1035.9	649.8	11.1	10.0	1.000249
6500.0	812.0	3.9	-7.2	43.9	1019.2	649.0	16.9	9.2	1.000245
7000.0	796.9	5.1	-8.0	38.0	996.3	650.3	25.0	8.4	1.000238
7500.0	782.2	5.7	-8.8	34.3	975.9	651.0	52.1	7.1	1.000233
8000.0	767.8	5.6	-9.1	33.4	957.6	651.1	81.7	7.7	1.000228
8500.0	753.6	5.2	-9.4	33.7	941.6	650.5	84.2	8.3	1.000224
9000.0	739.6	4.2	-9.9	35.1	927.6	649.3	86.0	8.9	1.000221
9500.0	725.8	3.1	-10.3	36.4	913.9	648.0	80.9	8.3	1.000217
10000.0	712.3	2.1	-10.8	37.7	900.4	646.8	74.2	7.7	1.000214
10500.0	699.1	1.0	-11.4	39.0	887.0	645.5	69.5	7.1	1.000211
11000.0	685.7	.1	-12.4	38.3	873.1	644.4	64.4	6.6	1.000206
11500.0	672.5	-9	-13.5	37.6	859.4	643.2	44.0	5.8	1.000202
12000.0	659.6	-1.8	-14.5	36.9	845.9	642.1	19.1	5.9	1.000199
12500.0	647.0	-2.7	-15.6	36.3	832.6	641.0	354.5	7.6	1.000195
13000.0	634.6	-3.7	-16.7	35.6	819.6	639.8	343.6	9.7	1.000191
13500.0	622.4	-4.6	-17.7	34.9	806.7	638.7	343.3	10.8	1.000188
14000.0	610.4	-5.6	-18.8	34.3	794.1	637.5	344.3	12.4	1.000184
14500.0	598.7	-6.5	-19.9	33.6	781.7	636.4	346.3	14.5	1.000181
15000.0	587.3	-7.5	-20.9	32.9	769.5	635.2	344.7	16.3	1.000178
15500.0	576.0	-8.4	-22.0	32.3	757.4	634.1	341.6	17.9	1.000174
16000.0	564.9	-9.4	-23.1	31.6	745.6	632.9	340.5	18.4	1.000171
16500.0	554.1	-10.3	-24.2	30.9	734.0	631.8	340.0	18.6	1.000168
17000.0	543.5	-11.3	-25.2	30.2	722.5	630.6	347.4	19.9	1.000165
17500.0	532.9	-12.1	-26.1	30.0	710.8	629.6	354.4	21.8	1.000162
18000.0	522.4	-12.9	-26.8	30.0	698.9	628.6	.9	25.0	1.000159
18500.0	512.0	-13.7	-27.5	30.0	687.2	627.6	4.9	27.6	1.000157
19000.0	501.9	-14.5	-28.2	30.0	675.8	626.6	4.7	27.8	1.000154
19500.0	491.9	-15.3	-28.9	30.0	664.4	625.7	4.2	26.4	1.000151
20000.0	481.9	-16.6	-30.0	30.3	654.2	624.1	2.6	22.2	1.000149
20500.0	472.0	-18.0	-31.1	30.6	644.3	622.4	1.8	18.4	1.000146
21000.0	462.4	-19.4	-32.2	30.9	634.5	620.7	2.4	15.0	1.000144
21500.0	452.9	-20.8	-33.3	31.2	624.9	619.0	3.5	14.7	1.000141
22000.0	443.6	-22.1	-34.4	31.5	615.5	617.3	4.7	15.7	1.000139
22500.0	434.6	-23.5	-35.6	31.8	606.2	615.6	4.6	18.2	1.000137
23000.0	425.7	-24.9	-36.7	32.1	597.1	613.9	4.2	20.5	1.000135

STATION ALTITUDE 3997.30 FEET MSL			UPPER AIR DATA			GEODETIC COORDINATES		
10 JAN. 86			0100060007			32.48034 LAT DEG		
ASCENSION NO. 7			S M R			106.42307 LON DEG		
TABLE 21 Cont'd								
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			DIRECTION DEGREES(TN)	SPEED KNOTS	
23500.0	417.0	-26.2	-37.8	32.4	588.2	612.2	3.2	1.000132
24000.0	408.4	-27.6	-39.0	32.7	579.4	610.5	2.0	1.000130
24500.0	400.1	-29.0	-40.1	33.0	570.7	608.8	.7	1.000128
25000.0	391.6	-30.5	-41.5	33.0	562.1	606.9	.2	1.000126
25500.0	383.3	-31.7	-42.5	33.0	553.0	605.4	.1	1.000124
26000.0	375.1	-32.5	-43.3	33.0	543.0	604.4	1.8	1.000122
26500.0	367.1	-33.9	-44.5	33.0	534.5	602.6		1.000120
27000.0	359.2	-35.4	-45.8	33.0	526.2	600.8		1.000118
27500.0	351.5	-36.8	-47.1	33.0	518.0	598.9		1.000116

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86  
ASCENSION NO. 7

MANDATORY LEVELS  
0100060007  
S M R

TABLE 22

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR	DEWPOINT	PERCENT	DIRECTION	SPEED	
		DEGREES	CENTIGRADE		DEGREES(TN)	KNOTS	
850.0	5273.	3.6	-6.6	47.	8.5	5.8	
800.0	6891.	4.6	-7.6	41.	22.3	8.6	
750.0	8622.	5.0	-9.5	34.	84.7	8.5	
700.0	10456.	1.1	-11.3	39.	69.8	7.2	
650.0	12398.	-2.5	-15.4	36.	358.1	7.2	
600.0	14467.	-6.4	-19.8	34.	346.2	14.4	
550.0	16681.	-10.7	-24.6	31.	342.5	19.0	
500.0	19068.	-14.7	-28.4	30.	4.7	27.8	
450.0	21655.	-21.2	-33.7	31.	4.0	15.1	
400.0	24463.	-29.0	-40.1	33.	.8	21.2	

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LONG DEG

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86 0800 HRS MST  
ASCENSION NO. 8

SIGNIFICANT LEVEL DATA  
0100060008  
S M R

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

TABLE 23

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
892.8	3997.3	-5.4	-10.5	67.0
982.6	4296.0	-1.2	-6.0	73.0
872.0	4615.6	4.0	-5.2	51.0
850.0	5297.5	3.6	-6.9	46.0
930.8	5908.5	5.2	-7.3	40.0
810.6	6567.8	4.5	-9.6	35.0
800.8	6894.0	6.0	-11.5	27.0
761.2	8257.1	5.8	-14.2	22.0
700.0	10428.8	.7	-14.9	30.0
638.3	12900.3	-4.5	-16.6	38.0
602.9	14369.9	-7.1	-26.2	20.0
534.1	17439.6	-13.2	-31.9	19.0
512.3	18479.8	-14.9	-34.4	17.0
500.0	19085.2	-14.3	-33.9	17.0
400.0	24493.2	-29.0	-44.3	21.0
344.2	27967.6	-37.5	-51.6	21.0

STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86 0800 HRS MST  
ASCENSION NO. 8

UPPER AIR DATA  
0100060008  
S M R

GEOMETRIC COORDINATES  
32.48034 LAT DEG  
106.42307 LONG DEG

TABLE 24

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3997.3	892.8	-5.4	-10.5	67.0	1160.3	637.8	19.0	0	1.000273
4000.0	892.7	-5.4	-10.5	67.0	1160.0	637.9	19.0	0	1.000273
4500.0	875.8	2.1	-5.3	57.9	1106.4	646.9	19.0	2.8	1.000267
5000.0	859.5	3.8	-6.2	48.2	1079.4	648.8	19.0	5.6	1.000260
5500.0	843.6	4.1	-7.0	44.0	1058.1	649.2	19.0	8.3	1.000254
6000.0	828.0	5.1	-7.6	39.3	1035.0	650.4	19.0	11.1	1.000247
6500.0	812.7	4.6	-9.4	35.5	1017.9	649.7	26.3	9.9	1.000242
7000.0	797.6	6.0	-11.7	26.6	994.3	651.3	36.1	9.0	1.000234
7500.0	782.9	5.9	-12.7	24.8	976.5	651.2	64.5	9.7	1.000229
8000.0	768.5	5.8	-13.7	22.9	958.6	651.0	84.1	11.8	1.000224
8500.0	754.3	5.2	-14.2	22.9	942.9	650.3	95.6	13.1	1.000220
9000.0	740.3	4.1	-14.3	24.7	929.2	649.0	101.6	13.3	1.000217
9500.0	726.5	3.0	-14.4	26.5	915.6	647.7	101.0	11.3	1.000214
10000.0	713.0	1.8	-14.6	28.2	902.3	646.3	96.9	8.8	1.000211
10500.0	699.7	0.7	-14.9	30.0	889.2	645.0	84.5	6.2	1.000208
11000.0	686.4	-0.4	-15.2	31.7	875.8	643.7	55.1	5.0	1.000205
11500.0	673.4	-1.5	-15.5	33.4	862.7	642.4	23.1	5.9	1.000202
12000.0	660.7	-2.6	-15.9	35.0	849.7	641.2	19.8	8.0	1.000198
12500.0	648.2	-3.6	-16.3	36.7	836.9	639.9	16.6	9.9	1.000195
13000.0	635.8	-4.7	-17.2	36.8	824.3	638.6	8.7	10.7	1.000192
13500.0	623.6	-5.6	-20.1	30.7	811.3	637.5	1.7	12.5	1.000187
14000.0	611.6	-6.4	-23.4	24.5	798.4	636.4	356.6	15.4	1.000183
14500.0	599.8	-7.4	-26.4	20.0	785.8	635.3	355.5	17.8	1.000179
15000.0	588.1	-8.4	-27.4	19.8	773.4	634.1	356.0	19.9	1.000176
15500.0	576.6	-9.3	-28.3	19.6	761.1	632.9	355.4	20.0	1.000173
16000.0	565.3	-10.3	-29.2	19.5	749.1	631.7	354.8	19.8	1.000170
16500.0	554.3	-11.3	-30.1	19.3	737.3	630.5	355.2	19.3	1.000167
17000.0	543.4	-12.3	-31.0	19.1	725.6	629.3	358.4	19.4	1.000164
17500.0	532.8	-13.3	-32.0	18.9	714.1	628.1	4.1	20.1	1.000161
18000.0	522.2	-14.1	-33.2	17.9	702.2	627.1	5.2	21.2	1.000158
18500.0	511.9	-14.9	-34.4	17.0	690.3	626.2	4.1	21.9	1.000156
19000.0	501.7	-14.4	-34.0	17.0	675.3	626.8	358.1	20.3	1.000152
19500.0	491.5	-15.4	-34.7	17.3	664.2	625.5	352.8	18.8	1.000150
20000.0	481.5	-16.8	-35.6	17.7	654.1	623.8	348.4	17.0	1.000147
20500.0	471.6	-18.1	-36.5	18.0	644.2	622.2	347.4	17.4	1.000145
21000.0	462.0	-19.5	-37.5	18.4	634.4	620.5	347.4	18.5	1.000143
21500.0	452.6	-20.9	-38.4	18.8	624.8	618.8	346.6	19.8	1.000140
22000.0	443.3	-22.2	-39.4	19.2	615.4	617.2	345.6	20.7	1.000138
22500.0	434.3	-23.6	-40.4	19.5	606.1	615.5	344.3	20.8	1.000136
23000.0	425.4	-24.9	-41.3	19.9	597.0	613.8	346.0	20.9	1.000134

STATION ALTITUDE 3997.30 FEET MSL  
 10 JAN. 86 0800 HRS MST  
 ASCENSION NO. 8

UPPER AIR DATA  
 0100060008  
 S M R

GEODETIC COORDINATES  
 32.48034 LAT DEG  
 106.42307 LON DEG

TABLE 24 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
23500.0	416.7	-26.3	-42.3	20.3	588.0	612.1		349.6	21.0	1.000132
24000.0	408.2	-27.7	-43.3	20.6	579.2	610.4		355.5	21.0	1.000130
24500.0	395.9	-29.0	-44.3	21.0	570.5	608.7		1.6	21.4	1.000126
25000.0	391.3	-30.2	-45.4	21.0	561.2	607.2		7.8	22.8	1.000126
25500.0	383.0	-31.5	-46.4	21.0	551.9	605.7		13.3	24.5	1.000124
26000.0	374.8	-32.7	-47.5	21.0	542.9	604.1		17.9	26.6	1.000121
26500.0	366.8	-33.9	-48.5	21.0	534.0	602.6		22.0	29.3	1.000119
27000.0	358.9	-35.1	-49.6	21.0	525.3	601.1		25.5	32.5	1.000117
27500.0	351.2	-36.4	-50.6	21.0	516.7	599.5				1.000115



STATION ALTITUDE 3997.30 FEET MSL  
10 JAN. 86  
ASCENSION NO. 8

MANDATORY LEVELS  
0100060008  
S M R

TABLE 25

GEODETIC COORDINATES  
32.48034 LAT DEG  
106.42307 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5294.	3.6	-6.9	46.	19.0	7.2
800.0	6915.	6.0	-11.6	27.	33.8	9.1
750.0	8647.	4.9	-14.2	23.	98.7	13.5
700.0	10478.	.7	-14.9	30.	85.1	6.2
650.0	12416.	-3.5	-16.2	36.	18.0	9.8
600.0	14476.	-7.3	-26.4	20.	355.5	17.7
550.0	16681.	-11.7	-30.5	19.	355.4	19.1
500.0	19052.	-14.3	-33.9	17.	357.1	20.1
450.0	21645.	-21.2	-38.7	19.	346.3	20.2
400.0	24453.	-29.0	-44.3	21.	1.4	21.4
350.0	27537.	-36.6	-50.8	21.		

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

SIGNIFICANT LEVEL DATA  
0100020010  
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL  
10 JAN. 86 1120 HRS MST  
ASCENSION NO. 10

TABLE 26

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE		REL. HUM. PERCENT
		9.1	-5.2	
888.5	4116.9	7.8	-7.1	35.0
857.2	5084.3	5.9	-7.3	34.0
850.0	5311.3	6.4	-7.2	33.0
816.2	6402.4	5.5	-9.5	37.0
788.2	7336.6	3.8	-10.6	33.0
776.3	7743.3	4.8	-10.5	34.0
737.0	9120.5	3.3	-17.5	32.0
700.0	10495.9	.8	-14.8	20.0
651.5	12376.1	-3.5	-17.4	30.0
612.2	13984.8	-6.0	-27.7	33.0
576.4	15528.6	-8.3	-30.2	16.0
533.4	17489.6	-12.9	-26.8	15.0
519.9	18130.3	-14.6	-31.5	30.0
510.1	18604.3	-14.6	-33.6	22.0
500.0	19100.9	-16.2	-34.9	18.0
469.5	20648.8	-19.6	-37.8	18.0
446.1	21893.5	-21.4	-39.8	17.0
400.0	24503.6	-28.3	-45.1	18.0
333.3	28710.0	-39.6	-53.4	21.0
300.0	31051.6	-45.3		
250.0	34988.0	-53.3		
209.4	38718.1	-56.7		
200.0	39673.4	-58.6		
176.6	42251.4	-58.4		
164.2	43762.6	-57.9		
150.0	45640.4	-58.4		
131.1	48414.1	-61.4		
104.6	53049.2	-60.0		
100.0	53973.5	-61.0		
76.2	59483.6	-65.9		
70.0	61171.7	-69.0		
61.1	63895.1	-63.2		
54.2	66343.6	-60.7		
50.0	68000.3	-61.1		
38.3	73465.6	-61.6		
30.0	78548.1	-55.0		
20.0	87183.2	-51.8		
14.9	93581.0	-46.3		
10.0	102420.6	-43.2		

STATION ALTITUDE 3989.00 FEET MSL  
10 JAN. 86 1120 HRS MST  
ASCENSION NO. 10

SIGNIFICANT LEVEL DATA  
0100020010  
WHITE SANDS

TABLE 26 Cont'd

GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.
MILLIBARS MSL FEET	AIR DEWPOINT	PERCENT
	DEGREES CENTIGRADE	

9.7 103101.2		-42.9
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STATION ALTITUDE 3989.00 FEET MSL  
 10 JAN. 86 1120 HRS MST  
 ASCENSION NO. 10

UPPER AIR DATA  
 0100020010  
 WHITE SANDS

GEODETIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LON DEG

TABLE 27

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	692.7	9.1	-5.2	36.0	1099.9	655.1	0.0	0.0	1.000265
4000.0	692.3	9.0	-5.3	35.6	1099.9	654.9	14.1	0.0	1.000265
4500.0	276.0	7.0	-7.1	35.6	1067.4	652.6	14.1	1.0	1.000260
5000.0	859.9	6.1	-7.3	37.7	1071.2	651.5	14.1	1.9	1.000256
5500.0	844.1	6.2	-7.6	36.3	1050.8	651.7	14.1	2.9	1.000251
6000.0	828.5	5.8	-8.6	34.5	1033.1	651.2	41.7	2.9	1.000246
6500.0	813.2	5.3	-9.6	33.1	1015.9	650.6	88.8	3.9	1.000241
7000.0	796.2	4.4	-10.2	33.6	1000.4	649.5	100.2	7.8	1.000237
7500.0	783.4	4.2	-10.5	33.2	982.7	649.2	101.7	11.5	1.000232
8000.0	768.9	4.5	-11.6	29.8	963.4	649.6	92.0	11.9	1.000227
8500.0	754.6	4.0	-14.0	25.5	947.6	648.9	83.2	11.8	1.000221
9000.0	740.6	3.4	-16.7	21.1	932.0	648.2	73.2	10.1	1.000216
9500.0	726.8	2.6	-16.5	22.7	917.3	647.2	64.0	8.7	1.000213
10000.0	713.2	1.7	-15.5	26.4	903.1	646.2	55.9	7.4	1.000210
10500.0	699.9	0.8	-14.8	30.0	889.1	645.1	41.1	6.9	1.000208
11000.0	686.7	-0.4	-15.5	30.8	876.0	643.8	23.9	7.4	1.000204
11500.0	673.7	-1.5	-16.2	31.6	863.1	642.4	16.1	9.2	1.000201
12000.0	660.9	-2.6	-16.9	32.4	850.4	641.0	12.9	11.3	1.000198
12500.0	646.4	-3.7	-18.1	31.7	837.5	639.8	15.8	13.2	1.000194
13000.0	636.0	-4.5	-20.8	26.4	824.0	638.8	22.1	14.7	1.000190
13500.0	623.8	-5.2	-24.0	21.1	810.7	637.8	32.8	16.2	1.000185
14000.0	611.8	-6.0	-27.7	16.0	797.6	636.8	41.4	17.8	1.000181
14500.0	600.0	-6.8	-28.5	15.7	784.4	636.0	48.5	19.6	1.000178
15000.0	588.4	-7.5	-29.4	15.3	771.4	635.1	48.9	21.0	1.000175
15500.0	577.0	-8.3	-30.2	15.0	758.6	634.2	48.8	22.2	1.000172
16000.0	565.8	-9.4	-28.9	18.6	747.0	632.8	47.5	22.8	1.000169
16500.0	554.7	-10.6	-27.9	22.4	735.6	631.4	46.1	22.8	1.000167
17000.0	543.8	-11.8	-27.2	26.3	724.4	630.0	44.3	22.1	1.000165
17500.0	533.2	-12.9	-26.9	29.9	713.4	628.6	43.6	22.1	1.000163
18000.0	522.6	-14.3	-30.5	23.6	703.0	626.9	43.7	22.6	1.000159
18500.0	512.2	-14.6	-33.1	18.9	690.0	626.5	46.5	24.8	1.000156
19000.0	502.0	-15.9	-34.7	18.0	679.6	624.9	46.1	26.8	1.000153
19500.0	492.0	-17.1	-35.7	18.0	669.1	623.5	43.3	28.6	1.000151
20000.0	482.1	-18.2	-36.6	18.0	658.5	622.1	35.4	30.4	1.000148
20500.0	472.3	-19.3	-37.5	18.0	648.0	620.8	27.5	32.7	1.000146
21000.0	462.8	-20.1	-38.4	17.7	637.0	619.8	21.7	33.5	1.000143
21500.0	453.4	-20.8	-39.2	17.3	625.8	618.9	17.7	33.8	1.000141
22000.0	444.1	-21.7	-40.0	17.0	615.2	617.8	19.4	32.0	1.000138
22500.0	434.9	-23.0	-41.0	17.2	605.6	616.2	22.4	30.3	1.000136
23000.0	425.9	-24.3	-42.1	17.4	596.3	614.6	27.0	28.0	1.000134

STATION ALTITUDE 3969.00 FEET MSL  
 10 JAN. 96 1120 HRS MST  
 ASCENSION NO. 10

UPPER AIR DATA  
 0100020010  
 WHITE SANDS

GEODETIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LON DEG

TABLE 27 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
23500.0	417.1	-25.6	17.6	587.1	612.9		30.5	1.000132
24000.0	408.5	-27.0	17.8	578.0	611.3		33.5	1.000129
24500.0	400.1	-28.3	18.0	569.1	609.6		36.8	1.000127
25000.0	391.5	-29.6	18.4	560.0	608.0		39.6	1.000125
25500.0	383.1	-31.0	18.7	551.0	606.3		39.1	1.000123
26000.0	374.9	-32.3	19.1	542.2	604.6		38.4	1.000121
26500.0	366.8	-33.7	19.4	533.6	602.9		36.9	1.000119
27000.0	359.0	-35.0	19.8	525.1	601.2		36.1	1.000117
27500.0	351.3	-36.3	20.1	516.7	599.5		37.0	1.000115
28000.0	343.7	-37.7	20.5	508.5	597.6		38.0	1.000114
28500.0	336.3	-39.0	20.9	500.5	596.1		39.3	1.000112
29000.0	329.0	-40.3	18.4**	492.2	594.5		40.5	1.000110
29500.0	321.7	-41.5	13.9**	483.8	592.9		41.9	1.000108
30000.0	314.5	-42.7	9.6**	475.5	591.4		41.3	1.000106
30500.0	307.5	-44.0	4.9**	467.4	589.8		39.7	1.000104
31000.0	300.7	-45.2	5**	459.5	588.2		35.0	1.000102
31500.0	293.6	-46.2		451.1	586.9		29.7	1.000100
32000.0	287.1	-47.2		442.7	585.6		24.4	1.000099
32500.0	280.5	-48.2		434.5	584.2		19.6	1.000097
33000.0	274.1	-49.3		426.5	582.9		14.8	1.000095
33500.0	267.8	-50.3		418.6	581.6		8.1	1.000093
34000.0	261.7	-51.3		410.9	580.3		358.0	1.000092
34500.0	255.7	-52.3		403.4	578.9		344.3	1.000090
35000.0	249.6	-53.3		395.9	577.6		331.6	1.000088
35500.0	244.0	-53.8		387.4	577.0		320.7	1.000086
36000.0	238.3	-54.2		379.1	576.4		310.4	1.000084
36500.0	232.7	-54.7		371.0	575.8		297.5	1.000083
37000.0	227.2	-55.1		363.1	575.2		286.2	1.000081
37500.0	221.9	-55.6		355.3	574.6		277.0	1.000079
38000.0	216.7	-56.0		347.7	574.0		272.3	1.000077
38500.0	211.6	-56.5		340.2	573.4		270.1	1.000076
39000.0	206.6	-57.3		333.3	572.4		269.9	1.000074
39500.0	201.7	-58.3		326.9	571.1		270.3	1.000073
40000.0	196.9	-58.6		319.6	570.7		271.4	1.000071
40500.0	192.2	-58.5		311.9	570.7		272.4	1.000069
41000.0	187.6	-58.5		304.5	570.8		272.2	1.000068
41500.0	183.1	-58.5		297.1	570.8		271.9	1.000066
42000.0	178.6	-58.4		290.0	570.9		270.5	1.000065
42500.0	174.5	-58.3		283.0	571.0		269.3	1.000063
43000.0	170.3	-58.2		276.0	571.2		269.1	1.000061

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL  
10 JAN. 86 1120 HRS MST  
ASCENSION NO. 10

UPPER AIR DATA  
0100020010  
WHITE SANDS

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

TABLE 27 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
43500.0	166.3	-58.0		269.2	571.5	268.9	51.3	1.000060
44000.0	162.3	-58.0		262.8	571.5	269.0	48.8	1.000059
44500.0	158.5	-58.1		256.7	571.3	268.7	46.4	1.000057
45000.0	154.7	-58.2		250.8	571.1	267.0	44.0	1.000056
45500.0	151.0	-58.4		244.9	571.0	265.1	42.7	1.000055
46000.0	147.4	-58.8		239.5	570.4	263.2	44.0	1.000053
46500.0	143.9	-59.3		234.4	569.7	261.9	45.7	1.000052
47000.0	140.4	-59.9		229.4	568.9	262.1	48.3	1.000051
47500.0	137.0	-60.4		224.4	568.2	262.6	50.5	1.000050
48000.0	133.8	-61.0		219.6	567.5	264.2	51.6	1.000049
48500.0	130.6	-61.4		214.8	566.9	266.0	52.4	1.000048
49000.0	127.4	-61.2		209.4	567.1	269.3	51.6	1.000047
49500.0	124.3	-61.1		204.3	567.3	272.3	50.7	1.000045
50000.0	121.4	-60.9		199.2	567.5	273.4	47.4	1.000044
50500.0	118.4	-60.8		194.3	567.7	274.4	44.2	1.000043
51000.0	115.6	-60.6		189.5	567.9	274.5	40.6	1.000042
51500.0	112.8	-60.5		184.8	568.1	274.4	37.2	1.000041
52000.0	110.1	-60.3		180.2	568.3	273.3	35.7	1.000040
52500.0	107.4	-60.2		175.7	568.6	271.8	34.2	1.000039
53000.0	104.9	-60.0		171.4	568.8	268.7	34.0	1.000038
53500.0	102.3	-60.5		167.6	568.1	265.9	33.7	1.000037
54000.0	99.9	-61.0		164.0	567.4	268.4	31.7	1.000037
54500.0	97.4	-61.5		160.4	566.8	271.2	29.9	1.000036
55000.0	95.1	-61.9		156.8	566.2	273.8	28.5	1.000035
55500.0	92.7	-62.4		153.3	565.6	276.5	27.3	1.000034
56000.0	90.5	-62.8		149.9	565.0	276.1	27.2	1.000033
56500.0	88.3	-63.2		146.5	564.4	274.7	27.6	1.000033
57000.0	86.1	-63.7		143.3	563.8	274.4	27.6	1.000032
57500.0	84.0	-64.1		140.1	563.2	275.1	27.2	1.000031
58000.0	82.0	-64.6		136.9	562.6	276.2	26.7	1.000030
58500.0	80.0	-65.0		133.9	562.0	277.9	25.9	1.000030
59000.0	78.0	-65.5		130.9	561.4	280.0	24.9	1.000029
59500.0	76.1	-65.9		128.0	560.8	283.8	23.2	1.000029
60000.0	74.2	-66.8		125.4	559.6	288.1	21.5	1.000028
60500.0	72.4	-67.8		122.8	558.3	289.6	19.5	1.000027
61000.0	70.6	-68.7		120.3	557.1	291.3	17.4	1.000027
61500.0	68.9	-68.3		117.1	557.6	285.7	15.6	1.000026
62000.0	67.2	-67.2		113.6	559.0	277.3	14.0	1.000025
62500.0	65.5	-66.2		110.3	560.5	271.7	13.2	1.000025
63000.0	63.9	-65.1		107.0	561.9	268.5	12.6	1.000024

UPPER AIR DATA  
0100020010  
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL  
10 JAN. 86 1120 HRS MST  
ASCENSION NO. 10

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LON DEG

TABLE 27 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
63500.0	62.3	-64.0		103.8	563.4	267.6	11.9	1.000023
64000.0	60.8	-63.1		100.8	564.6	272.4	10.6	1.000022
64500.0	59.3	-62.6		98.1	565.3	278.3	9.4	1.000022
65000.0	57.9	-62.1		95.5	566.0	282.8	8.8	1.000021
65500.0	56.5	-61.6		93.0	566.7	287.9	8.3	1.000021
66000.0	55.1	-61.1		90.5	567.4	291.2	8.7	1.000020
66500.0	53.8	-60.7		88.2	567.8	293.1	9.4	1.000020
67000.0	52.5	-60.9		86.1	567.6	297.6	9.7	1.000019
67500.0	51.2	-61.0		84.1	567.5	307.2	9.5	1.000019
68000.0	50.0	-61.1		82.1	567.3	317.0	9.5	1.000018
68500.0	48.8	-61.1		80.2	567.2	337.2	9.1	1.000018
69000.0	47.6	-61.2		78.3	567.2	356.5	9.9	1.000017
69500.0	46.5	-61.2		76.4	567.1	13.9	10.3	1.000017
70000.0	45.4	-61.3		74.6	567.1	32.7	1.5	1.000017
70500.0	44.3	-61.3		72.8	567.0	49.1	11.7	1.000016
71000.0	43.2	-61.4		71.1	566.9	61.6	12.7	1.000016
71500.0	42.2	-61.4		69.4	566.9	72.1	14.1	1.000015
72000.0	41.1	-61.5		67.7	566.8	74.7	15.1	1.000015
72500.0	40.1	-61.5		66.1	566.8	72.3	15.4	1.000015
73000.0	39.2	-61.6		64.5	566.7	69.8	15.7	1.000014
73500.0	38.2	-61.6		63.0	566.7	62.5	14.8	1.000014
74000.0	37.3	-60.9		61.3	567.6	54.4	14.1	1.000014
74500.0	36.4	-60.3		59.6	568.4	47.8	13.8	1.000013
75000.0	35.6	-59.6		58.0	569.3	42.8	13.6	1.000013
75500.0	34.7	-59.0		56.5	570.2	37.7	13.5	1.000013
76000.0	33.9	-58.3		55.0	571.0	42.4	12.7	1.000012
76500.0	33.1	-57.7		53.5	571.9	47.7	12.0	1.000012
77000.0	32.3	-57.0		52.1	572.7	54.7	11.6	1.000012
77500.0	31.5	-56.4		50.7	573.6	63.0	11.8	1.000011
78000.0	30.8	-55.7		49.3	574.5	70.9	12.2	1.000011
78500.0	30.1	-55.1		48.0	575.3	70.9	13.0	1.000011
79000.0	29.4	-54.8		46.9	575.6	70.3	13.8	1.000010
79500.0	28.7	-54.6		45.7	575.9	69.9	14.5	1.000010
80000.0	28.0	-54.5		44.6	576.1	70.2	14.8	1.000010
80500.0	27.4	-54.3		43.6	576.4	70.5	15.0	1.000010
81000.0	26.7	-54.1		42.5	576.6	71.5	15.2	1.000009
81500.0	26.1	-53.9		41.5	576.8	73.1	15.3	1.000009
82000.0	25.5	-53.7		40.5	577.1	74.7	15.4	1.000009
82500.0	24.9	-53.5		39.5	577.3	74.8	16.1	1.000009
83000.0	24.3	-53.4		38.6	577.6	74.1	17.1	1.000009

UPPER AIR DATA  
0100020010  
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL  
10 JAN. 86  
ASCENSION NO. 1C

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.17033 LON DEG

TABLE 27 Cont'd

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TM)	SPEED KNOTS	INDEX OF REFRACTION
83500.0	23.8	-53.2		37.7	577.8	73.4	18.1	1.000008
84000.0	23.2	-53.0		36.7	578.1	73.7	19.1	1.000008
84500.0	22.7	-52.8		35.9	578.3	74.0	20.2	1.000008
85000.0	22.2	-52.6		35.0	578.5	74.5	21.1	1.000008
85500.0	21.6	-52.4		34.2	578.8	76.1	20.6	1.000008
86000.0	21.1	-52.2		33.3	579.0	77.8	20.2	1.000007
86500.0	20.7	-52.1		32.5	579.3	78.6	19.6	1.000007
87000.0	20.2	-51.9		31.8	579.5	77.0	18.5	1.000007
87500.0	19.7	-51.5		31.0	580.0	75.1	17.5	1.000007
88000.0	19.3	-51.1		30.2	580.5	73.9	16.9	1.000007
88500.0	18.8	-50.7		29.5	581.1	73.9	16.9	1.000007
89000.0	18.4	-50.2		28.7	581.7	73.9	16.9	1.000006
89500.0	18.0	-49.8		28.0	582.2	73.9	17.0	1.000006
90000.0	17.6	-49.4		27.4	582.8	73.8	17.1	1.000006
90500.0	17.2	-48.9		26.7	583.3	73.7	17.2	1.000006
91000.0	16.8	-48.5		26.0	583.9	72.8	17.4	1.000006
91500.0	16.4	-48.1		25.4	584.4	70.1	17.6	1.000006
92000.0	16.0	-47.7		24.8	585.0	67.4	17.9	1.000006
92500.0	15.7	-47.2		24.1	585.6	65.4	18.0	1.000005
93000.0	15.3	-46.8		23.6	586.1	64.9	17.6	1.000005
93500.0	15.0	-46.4		23.0	586.7	64.3	17.2	1.000005
94000.0	14.6	-46.2		22.4	587.0	63.7	16.6	1.000005
94500.0	14.3	-46.0		21.9	587.2	62.7	14.8	1.000005
95000.0	14.0	-45.8		21.4	587.4	61.5	13.0	1.000005
95500.0	13.7	-45.6		20.9	587.6	59.8	11.2	1.000005
96000.0	13.4	-45.5		20.4	587.9	64.8	11.2	1.000005
96500.0	13.1	-45.3		20.0	588.1	70.3	11.4	1.000004
97000.0	12.8	-45.1		19.5	588.3	75.6	11.8	1.000004
97500.0	12.5	-44.9		19.1	588.5	73.4	11.8	1.000004
98000.0	12.2	-44.8		18.6	588.8	66.9	11.8	1.000004
98500.0	11.9	-44.6		18.2	589.0	60.5	11.9	1.000004
99000.0	11.7	-44.4		17.8	589.2	53.9	11.6	1.000004
99500.0	11.4	-44.2		17.4	589.4	45.5	10.4	1.000004
100000.0	11.2	-44.0		17.0	589.7	35.3	9.6	1.000004
100500.0	10.9	-43.9		16.6	589.9			1.000004
101000.0	10.7	-43.7		16.2	590.1			1.000004
101500.0	10.4	-43.5		15.8	590.3			1.000004
102000.0	10.2	-43.3		15.4	590.6			1.000003
102500.0	10.0	-43.2		15.1	590.8			1.000003
103000.0	9.7	-42.9		14.7	591.1			1.000003



STATION ALTITUDE 3989.00 FEET MSL  
 10 JAN. 86 1120 HRS MST  
 ASCENSION NO. 10

MANDATORY LEVELS  
 0100020010  
 WHITE SANDS

GEODETIC COORDINATES  
 32.40043 LAT DEG  
 106.37033 LON DEG

TABLE 28

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5307.	6.4	-7.2	37.	14.1	2.5
800.0	6934.	4.5	-10.1	34.	99.6	7.2
750.0	8657.	3.8	-14.9	24.	80.4	11.2
700.0	10485.	.8	-14.8	30.	41.4	6.9
650.0	12422.	-3.6	-17.7	32.	15.5	12.9
600.0	14485.	-6.8	-28.5	16.	48.4	19.6
550.0	16697.	-11.1	-27.6	24.	45.3	22.5
500.0	19074.	-16.2	-34.9	18.	45.6	27.1
450.0	21649.	-21.1	-39.5	17.	18.3	33.2
400.0	24463.	-28.3	-45.1	18.	36.8	30.8
350.0	27552.	-36.6	-51.2	20.	37.1	38.1
300.0	30990.	-45.3			34.7	22.7
250.0	34912.	-53.3			332.4	18.2
200.0	39578.	-58.6			270.7	43.5
175.0	42333.	-58.3			269.4	52.7
150.0	45518.	-58.4			264.6	43.0
125.0	49248.	-61.1			271.7	51.2
100.0	53807.	-61.0			268.1	31.9
80.0	58314.	-65.0			277.9	25.9
70.0	60962.	-69.0			290.7	16.9
60.0	64035.	-62.8			275.0	10.0
50.0	67745.	-61.1			316.3	9.5
40.0	72288.	-61.5			72.2	15.5
30.0	78214.	-55.0			70.9	13.0
25.0	82049.	-53.6			74.9	15.8
20.0	86777.	-51.8			76.5	18.2
15.0	92971.	-46.4			64.4	17.3
10.0	101869.	-43.2				

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

END

DT/C

8-86